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REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICS

No. 159-89 November 29, 1989

U.S. FOREIGN TRADE – SEPTEMBER 1989

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY
(Millions of U.S. Dollars)

	Sept. 1989	August 1989	% Change Aug.-Sept.	Year to Date '89	Year to Date '88	% Change '88-'89
METAL CUTTING MACHINE TOOLS						
Imports	$137.2	$185.6	(26.1%)	$1,427.0	$1,141.6	25.0%
Exports	$ 46.1	$ 42.4	8.7%	$ 357.6	$ 297.3	20.3%
Balance	($ 91.1)	($143.2)	(36.4%)	($1,069.2)	($ 844.3)	26.6%
METAL FORMING MACHINE TOOLS						
Imports	$ 35.9	$ 54.7	(34.4%)	$425.9	$368.2	15.6%
Exports	$ 32.5	$ 40.9	(20.5%)	$355.2	$239.2	48.5%
Balance	($ 3.4)	($ 13.8)	(75.4%)	($ 70.7)	($129.0)	(45.2%)
MACHINE TOOL TOTAL						
Imports	$173.1	$240.3	(28.0%)	$1,852.9	$1,509.9	22.7%
Exports	$ 78.6	$ 83.3	(5.6%)	$ 712.8	$ 536.5	32.9%
Balance	($ 94.4)	($157.0)	(39.9%)	($1,140.0)	($ 973.4)	17.1%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Imports	$101.6	$120.8	(15.9%)	$989.4	NA	NA
Exports	$ 26.5	$ 24.7	7.3%	$183.0	NA	NA
Balance	($ 75.1)	($ 96.1)	(21.9%)	($806.4)	NA	NA
OTHER MANUFACTURING TECHNOLOGY						
Imports	$80.5	$111.1	(27.5%)	$1,072.6	NA	NA
Exports	$91.0	$112.4	(19.0%)	$ 896.6	NA	NA
Balance	$10.5	$ 1.3	707.7%	($ 175.8)	NA	NA

Note: Numerically controlled machine tools includes both metal cutting and metal forming machines, and is included in the respective totals. NA = not available; ( ) denotes negative; individual items may not add up to totals due to rounding.

During September 1989 exports of metal cutting machine tools rose 9% compared with August to $46.1 million, the second highest total of 1989. Year-to-date metal cutting exports are 20% higher this year than last. Imports of metal cutting machine tools fell 26% from August to $137.2 million, the second lowest total of 1989; year-to-date metal cutting imports are 25% higher this year than last. Exports of NC machines rose 7% over last month to $26.5 million, while imports of NC machines fell 16% to $101.6 million. The overall machine tool trade deficit in September was $94.4 million, 40% less than in August and the lowest monthly deficit since October 1988.

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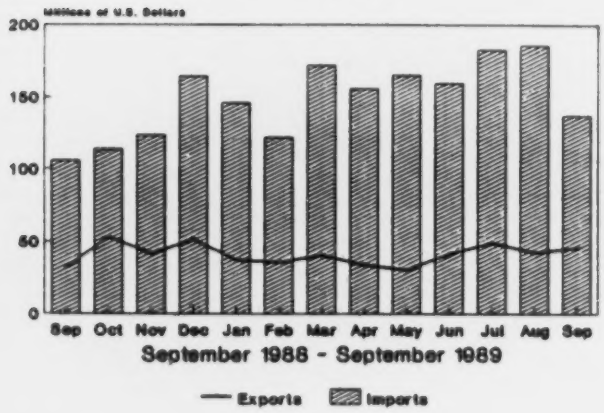
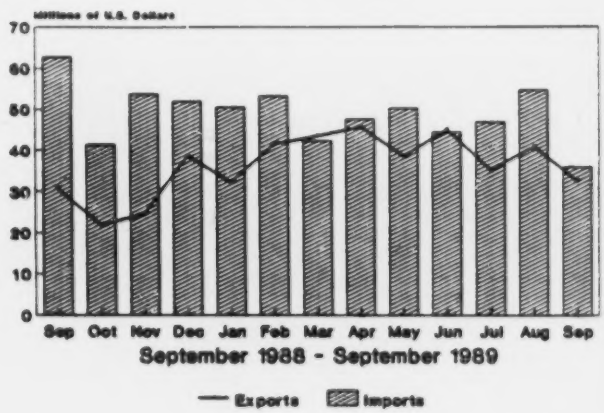
U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



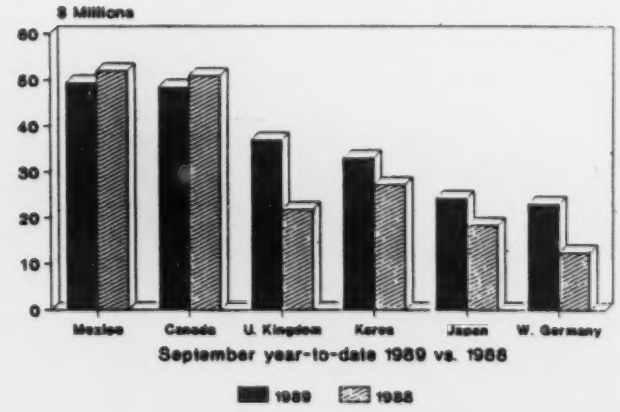
METAL CUTTING

Exports

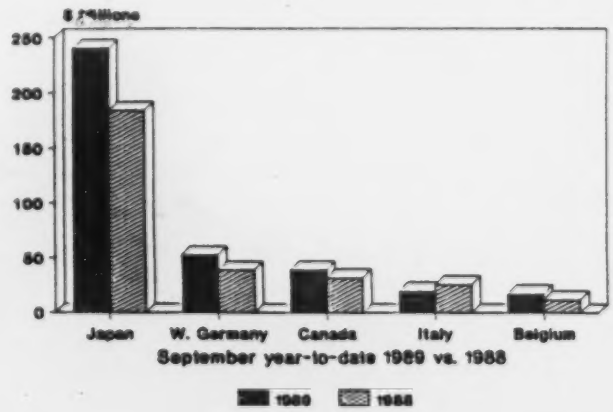
Exports of metal cutting machine tools in September rose 9% compared with August to $46.1 million. Exports of machining centers reached $7.5 million, double August's total, and included $3.4 million and $1.9 million to Canada and Korea, respectively. Exports of horizontal NC lathes rose to $5.3 million (from $1.0 million in August), and included $2.1 and $1.8 million to China and Canada, respectively. Grinding machine exports fell 16% in September to $10.6 million. Canada was the largest export market in September at $9.3 million, followed by Mexico and (surprise!) the Soviet Union. Exports to the Soviet Union in September included five NC sharpening machines ($2.6 million) and two gear cutting machines ($2.5 million); the $5.3 million total easily exceeds annual U.S. machine tool exports to the Soviet Union for every year since 1983.

METAL CUTTING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS



LEADING U.S. IMPORT SOURCES



Imports

U.S. metal cutting machine tool imports from almost all import sources fell in September compared with August. The import total – $137.2 million – was down 26% from August's record $185.6 million. Imports from Japan fell 28% in September to $79.6 million, although year-to-date imports from Japan are 32% higher this year than last. By category, the largest decreases in September imports compared with August were in drilling machines (from $9.2 million in August to $2.5 million in September); grinding machines (from $32.6 million to $18.3 million); and station type machines (from $9.7 million to $2.5 million). Nevertheless, year-to-date U.S. imports are up for all major imports sources except Taiwan and the United Kingdom.

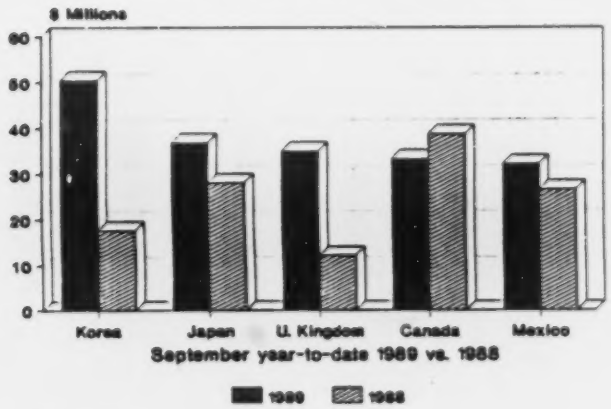
METAL FORMING

Exports

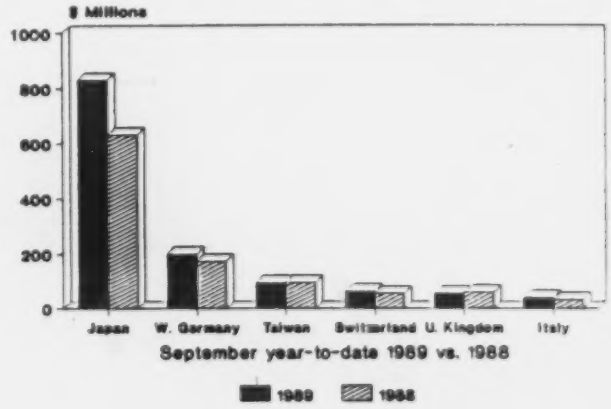
U.S. exports of metal forming machine tools fell 21% from August to September to $32.5 million. However, year-to-date metal forming exports are still almost 50% higher this year than last. Exports to Korea rebounded from $3.2 million in August to $6.3 million in September, while exports to Canada rose 79% to $4.6 million. Exports to the United Kingdom in September fell to $0.9 million from $3.5 million in August and $4.5 million in July, although year-to-date exports are up 188% over last year. Korea is by far the leading year-to-date export market for metal forming machines at $50.5 million, up 186% over last year, followed by a tightly packed group consisting of Japan, the United Kingdom, Canada and Mexico. Exports in September to the Soviet Union were $0.9 million, up from almost nothing previously in 1989.

METAL FORMING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS



LEADING U.S. IMPORT SOURCES



Imports

Imports of metal forming machine tools fell 34% in September compared with August to $35.9 million, due largely to a fall in imports of presses from $23.6 million to $5.0 million. Japanese imports (especially presses) fell sharply, from $33.5 million in August to $17.7 million in September, although year-to-date imports from Japan are still 31% higher this year than last. Imports from Brazil fell to almost nothing in September from $4.4 million in August; year-to-date imports from Brazil are $4.5 million, down from $17.2 million at this time last year. Total year-to-date imports of metal forming machines are up 16% over last year.

OTHER MANUFACTURING TECHNOLOGY

Exports

U.S. exports of Other Manufacturing Technology fell 19% in September from August to $91.0 million. But because imports fell 28% to $80.5 million, the United States enjoyed a trade surplus of $10.5 million, the second consecutive monthly surplus in this category. Exports of machine tool parts and accessories fell from $72.6 million in August to $58.1 million in September, mainly due to an extremely large August shipment to Egypt. Exports of numerical controls held steady in September at $3.1 million; exports of industrial robots and robot parts fell 43% to $3.6 million. Exports of machines and appliances for testing metals and for balancing mechanical parts dropped slightly in September to $6.5 million, while exports of quenching and cutting oils in September rose from $0.8 million to $1.4 million.

Imports

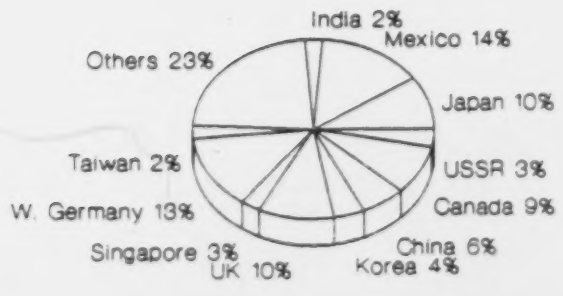
U.S. imports of Other Manufacturing Technology fell 28% in September compared with August. Imports of machine tool parts and accessories fell to $36.3 million in September from $41.6 million in August; imports of injection molding machinery fell 60% to $15.2 million. Imports of numerical controls rebounded from $2.6 million in August to $3.2 million in September, and imports of industrial robots and robot parts fell slightly to $12.3 million in September compared with August. Japan accounted for 44% of U.S. imports of Other Manufacturing Technology in September; Germany supplied 17%.

MONTHLY FOCUS

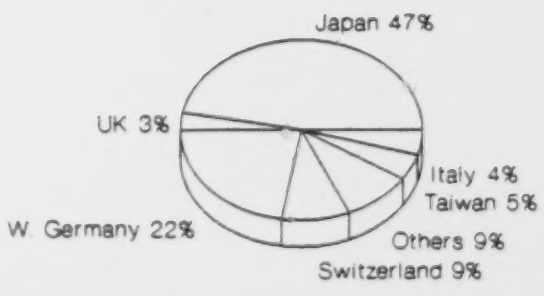
U.S. Foreign Trade in Grinding Machines

Through September of 1989 U.S. imports of grinding machines totalled $218.8 million. Six countries account for 91% of all grinding machine imports -- Japan (47%), West Germany (23%), Switzerland (9%), Taiwan (5%), Italy (4%) and the United Kingdom (3%). On the other hand, total U.S. exports of grinding machines in 1989 through September totalled $98.4 million. Exports are much less concentrated -- the top 19 export markets account for 91% of total exports. The top export market for U.S. grinding machines -- Mexico -- accounts for just 14% of the total export market.

Destination of U.S. Exports of Grinding Machines -- % of Total
January - September 1989



Origin of U.S. Imports of Grinding Machines -- % of Total
January - September 1989



1989 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY		FEBRUARY		MARCH		APRIL	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	4,001	$9,651,663	3,732	$12,688,394	6,637	$13,092,251	5,141	$12,327,284
Boring Machines	74	$638,181	26	$2,545,592	18	$3,222,763	17	$950,038
Drilling Machines	18	$895,459	17	$696,798	15	$1,308,988	27	$1,314,012
Gear Cutting Machines	36	$5,448,728	21	$2,086,374	9	$2,158,882	6	$849,917
Grinding Machines	230	$7,834,870	294	$8,944,628	504	$11,634,092	317	$9,161,095
Horizontal Lathes NC	16	$2,019,282	5	$461,768	31	$2,496,490	35	$3,253,292
Vertical Lathes NC	2	$366,000	0	0	2	$112,569	0	0
Lathes Non-NC	16	$465,926	56	$1,275,656	59	$1,492,297	43	$1,613,647
Milling Machines	66	$4,903,870	89	$3,273,726	30	$2,019,223	46	$1,805,710
Machining Centers	21	$3,086,413	22	$5,831,777	14	$1,491,145	28	$3,534,392
Station Type Machines	4	$1,498,740	5	$2,392,333	9	$3,248,541	5	$929,962
Other Metal Cutting	257	$4,584,770	265	$2,822,073	210	$5,030,489	161	$4,263,085
Punching & Shearing	63	$2,957,497	127	$7,132,924	110	$5,651,176	105	$3,794,853
Bending & Forming Machines	84	$3,433,140	104	$3,074,999	94	$4,555,647	107	$4,294,467
Presses	133	$5,590,097	115	$5,951,499	119	$5,662,008	116	$6,281,018
Forging Machines	46	$3,249,295	74	$3,224,180	73	$2,223,430	38	$4,463,652
Other Metal Forming	322	$12,540,612	266	$14,907,382	527	$18,723,205	467	$20,849,780
TOTAL	5,389	$69,164,543	5,218	$77,310,103	8,461	$84,123,196	6,659	$79,686,204

PRODUCT TYPES	MAY		JUNE		JULY		AUGUST	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	4,512	$10,318,184	3,556	$17,348,522	4,243	$14,523,609	5,859	$10,954,511
Boring Machines	10	$1,811,008	29	$1,671,316	4	$75,744	26	$1,370,063
Drilling Machines	39	$2,487,530	33	$1,653,649	24	$1,428,421	42	$1,575,597
Gear Cutting Machines	17	$1,579,602	22	$4,722,265	55	$5,208,745	18	$3,423,837
Grinding Machines	227	$5,612,584	321	$12,488,637	392	$19,501,133	349	$12,629,954
Horizontal Lathes NC	13	$1,205,227	26	$3,018,171	13	$1,512,085	12	$1,014,932
Vertical Lathes NC	1	$80,170	5	$738,521	2	$367,521	3	$368,610
Lathes Non-NC	37	$1,373,016	41	$776,438	59	$1,779,338	39	$1,110,067
Milling Machines	35	$2,375,933	37	$1,408,096	74	$4,101,114	39	$1,503,000
Machining Centers	28	$3,340,264	14	$1,650,056	23	$4,190,223	34	$3,690,718
Station Type Machines	7	$1,176,710	0	0	1	$45,678	6	$5,025,800
Other Metal Cutting	167	$3,352,346	226	$8,360,124	130	$6,166,339	178	$4,880,157
Punching & Shearing	74	$5,837,129	120	$4,665,277	105	$4,248,102	118	$6,391,378
Bending & Forming Machines	91	$7,421,103	72	$4,269,185	84	$2,346,841	80	$4,172,832
Presses	172	$5,741,420	143	$8,063,327	97	$8,025,313	118	$8,418,897
Forging Machines	63	$3,165,982	74	$4,247,697	49	$2,299,970	77	$2,971,894
Other Metal Forming	568	$12,219,709	293	$11,931,694	252	$8,625,468	277	$13,789,261
TOTAL	6,061	$69,097,917	5,012	$87,012,975	5,607	$84,445,644	7,275	$83,291,508

1989 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER UNITS	SEPTEMBER VALUE
Used & Rebuilt & Under $2,500	6,537	$10,153,000
Boring Machines	7	$455,605
Drilling Machines	74	$1,667,003
Gear Cutting Machines	8	$2,758,714
Grinding Machines	234	$10,589,426
Horizontal Lathes NC	32	$5,329,579
Vertical Lathes NC	0	$0
Lathes Non-NC	37	$530,811
Milling Machines	30	$1,466,905
Machining Centers	75	$7,466,254
Station Type Machines	7	$4,126,477
Other Metal Cutting	201	$5,348,111
Punching & Shearing	122	$4,957,288
Bending & Forming Machines	63	$3,118,880
Presses	123	$6,266,003
Forging Machines	109	$3,380,224
Other Metal Forming	208	$11,018,013
TOTAL	7,867	$78,632,293

1989 U.S. EXPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	1ST QUARTER TOTALS UNITS	1ST QUARTER TOTALS VALUE	2ND QUARTER TOTALS UNITS	2ND QUARTER TOTALS VALUE	3RD QUARTER TOTALS UNITS	3RD QUARTER TOTALS VALUE	FIRST SIX MONTH TOTALS UNITS	FIRST SIX MONTH TOTALS VALUE
Used & Rebuilt & Under $2,500	14,370	$35,432,308	13,209	$39,993,990	16,639	$35,631,120	27,579	$75,426,298
Boring Machines	118	$6,406,536	56	$4,432,362	37	$1,901,412	174	$10,838,898
Drilling Machines	50	$2,901,245	99	$5,455,191	140	$4,671,021	149	$8,356,436
Gear Cutting Machines	66	$9,693,984	45	$7,151,784	81	$11,391,296	111	$16,845,768
Grinding Machines	1,028	$28,413,590	865	$27,262,316	975	$42,720,513	1,893	$55,675,906
Horizontal Lathes NC	52	$4,977,540	74	$7,476,690	57	$7,856,596	126	$12,454,230
Vertical Lathes NC	4	$478,569	6	$818,691	5	$736,131	10	$1,297,260
Lathes Non-NC	131	$3,233,879	121	$3,763,101	135	$3,420,216	252	$6,996,980
Milling Machines	185	$10,196,819	118	$5,589,739	143	$7,071,019	303	$15,786,558
Machining Centers	57	$10,409,335	70	$8,524,712	132	$15,347,195	127	$18,934,047
Station Type Machines	18	$7,139,614	12	$2,106,672	14	$9,197,955	30	$9,246,286
Other Metal Cutting	732	$12,437,332	554	$15,975,555	509	$16,394,607	1,286	$28,412,887
Punching & Shearing	300	$15,741,597	299	$14,297,259	345	$15,596,768	599	$30,038,856
Bending & Forming Machines	282	$11,063,786	270	$15,984,755	227	$9,638,553	552	$27,048,541
Presses	367	$17,203,604	431	$20,085,765	338	$22,710,213	798	$37,289,369
Forging Machines	193	$8,696,905	175	$11,877,331	235	$8,652,088	368	$20,574,236
Other Metal Forming	1,115	$46,171,199	1,328	$45,001,183	737	$33,432,742	2,443	$91,172,382
TOTAL	19,068	$230,597,842	17,732	$235,797,096	20,749	$246,369,445	36,800	$466,394,938

PRODUCT TYPES	SEPTEMBER Y-T-D TOTALS UNITS	SEPTEMBER Y-T-D TOTALS VALUE	% CHANGE 1ST-2ND QUARTER UNITS	% CHANGE 1ST-2ND QUARTER VALUE	% CHANGE 2ND-3RD QUARTER UNITS	% CHANGE 2ND-3RD QUARTER VALUE
Used & Rebuilt & Under $2,500	44,218	$111,057,418	-8.08%	12.87%	25.97%	-10.91%
Boring Machines	211	$12,740,310	-52.54	-30.81	-33.93	-57.10
Drilling Machines	289	$13,027,457	98.00	88.03	41.41	-14.37
Gear Cutting Machines	192	$28,237,064	-31.82	-26.22	80.00	59.28
Grinding Machines	2,868	$98,396,419	-15.86	-4.05	12.72	56.70
Horizontal Lathes NC	183	$20,310,826	42.31	50.21	-22.97	5.08
Vertical Lathes NC	15	$2,033,391	50.00	71.07	-16.67	-10.08
Lathes Non-NC	387	$10,417,196	-7.63	16.36	11.57	-9.11
Milling Machines	446	$22,857,577	-36.22	-45.18	21.19	26.50
Machining Centers	259	$34,281,242	22.81	-18.11	88.57	80.03
Station Type Machines	44	$18,444,241	-33.33	-70.49	16.67	336.61
Other Metal Cutting	1,795	$44,807,494	-24.32	28.45	-8.12	2.62
Punching & Shearing	944	$45,635,624	-0.33	-9.18	15.38	9.09
Bending & Forming Machines	775	$36,687,094	-4.26	44.48	-15.93	-39.70
Presses	1,136	$59,999,582	17.44	16.75	-21.58	13.07
Forging Machines	603	$29,226,324	-9.33	36.57	34.29	-27.15
Other Metal Forming	3,180	$124,605,124	19.10	-2.53	-44.50	-25.71
TOTAL	57,549	$712,764,383	-7.01	2.25	17.01	4.48

1989 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY		FEBRUARY		MARCH		APRIL	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	40,903	$10,113,655	28,520	$12,085,985	51,136	$12,059,838	53,299	$12,791,125
Boring Machines	89	$7,646,136	74	$5,470,749	89	$9,365,627	62	$2,622,059
Drilling Machines	161	$10,160,328	120	$7,005,035	162	$6,883,656	173	$9,029,944
Gear Cutting Machines	46	$4,358,306	23	$2,222,717	67	$1,681,440	24	$1,627,946
Grinding Machines	560	$13,559,864	606	$14,282,507	620	$29,083,045	718	$27,286,695
Horizontal Lathes NC	366	$33,687,505	321	$27,833,919	364	$35,957,086	296	$26,315,649
Vertical Lathes NC	13	$1,199,802	10	$1,610,472	5	$424,971	19	$1,935,853
Lathes Non-NC	560	$7,822,799	352	$5,663,166	399	$6,877,263	484	$7,059,595
Milling Machines	410	$9,722,408	316	$8,491,551	435	$17,093,177	604	$9,709,582
Machining Centers	315	$34,929,013	211	$25,193,738	257	$28,052,640	318	$30,857,850
Station Type Machines	11	$1,801,730	30	$1,648,674	7	$3,375,197	16	$11,494,843
Other Metal Cutting	311	$12,467,388	355	$12,764,694	600	$24,026,638	392	$16,945,014
Punching & Shearing	161	$7,053,551	153	$5,222,761	113	$6,861,975	128	$4,809,075
Bending Forming Machines	183	$8,366,797	194	$7,673,335	199	$5,639,375	181	$9,461,859
Presses	239	$11,386,574	189	$25,984,776	154	$17,014,014	111	$9,382,988
Forging Machines	236	$13,641,470	131	$5,000,422	133	$2,474,805	95	$13,948,522
Other Metal Forming	129	$8,724,784	939	$7,345,113	1,089	$7,539,827	471	$8,290,431
TOTAL	44,693	$196,642,110	32,544	$175,499,614	55,829	$214,410,574	57,391	$203,569,030

PRODUCT TYPES	MAY		JUNE		JULY		AUGUST	
	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE
Used & Rebuilt & Under $2,500	55,283	$15,897,111	69,060	$13,921,578	77,910	$13,718,883	74,032	$16,965,543
Boring Machines	56	$2,914,892	72	$2,527,722	81	$7,293,496	75	$3,376,302
Drilling Machines	198	$8,206,249	152	$4,725,223	104	$5,203,287	248	$9,230,435
Gear Cutting Machines	92	$5,184,412	145	$5,584,652	61	$3,683,843	57	$5,892,446
Grinding Machines	703	$28,618,882	774	$23,858,043	649	$31,278,466	829	$32,609,425
Horizontal Lathes NC	370	$37,390,197	359	$31,870,568	429	$33,974,512	352	$32,470,483
Vertical Lathes NC	21	$3,192,456	13	$2,027,113	11	$5,265,883	16	$1,717,600
Lathes Non-NC	406	$7,181,037	444	$11,364,045	503	$7,584,504	540	$6,924,904
Milling Machines	533	$6,525,800	534	$5,485,628	556	$12,482,002	641	$11,154,525
Machining Centers	293	$31,263,982	326	$40,246,641	335	$38,239,581	396	$40,355,378
Station Type Machines	19	$4,417,149	19	$4,361,363	26	$10,264,530	32	$9,664,860
Other Metal Cutting	450	$16,125,897	423	$15,836,967	442	$15,809,995	504	$16,912,954
Punching & Shearing	103	$4,809,616	226	$8,847,890	243	$9,209,241	106	$5,451,018
Bending Forming Machines	535	$9,628,758	200	$9,413,493	216	$7,023,861	153	$8,870,175
Presses	161	$12,083,555	156	$8,735,506	103	$8,456,517	148	$23,625,962
Forging Machines	155	$9,299,745	105	$5,532,553	189	$9,336,801	94	$4,160,854
Other Metal Forming	545	$13,071,111	188	$9,705,046	185	$10,660,150	238	$10,893,099
TOTAL	59,923	$215,810,849	73,196	$204,044,031	82,043	$229,485,552	78,461	$240,275,963

1989 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	SEPTEMBER UNITS	SEPTEMBER VALUE
Used & Rebuilt & Under $2,500	77,048	$15,144,015
Boring Machines	46	$5,045,649
Drilling Machines	96	$2,544,792
Gear Cutting Machines	16	$3,220,313
Grinding Machines	656	$18,270,938
Horizontal Lathes NC	366	$33,946,089
Vertical Lathes NC	12	$1,799,909
Lathes Non-NC	300	$4,584,582
Milling Machines	448	$6,954,433
Machining Centers	323	$34,561,766
Station Type Machines	4	$2,526,536
Other Metal Cutting	289	$11,236,576
Punching & Shearing	112	$6,143,562
Bending Forming Machines	154	$4,509,033
Presses	134	$5,006,807
Forging Machines	51	$3,645,170
Other Metal Forming	134	$13,896,994
TOTALS	80,189	$173,037,164

1989 U.S. IMPORTS
BY PRODUCT GROUPS

PRODUCT TYPES	1ST QUARTER TOTALS UNITS	1ST QUARTER TOTALS VALUE	2ND QUARTER TOTALS UNITS	2ND QUARTER TOTALS VALUE	3RD QUARTER TOTALS UNITS	3RD QUARTER TOTALS VALUE	FIRST SIX MONTH TOTALS UNITS	FIRST SIX MONTH TOTALS VALUE
Used & Rebuilt & Under $2,500	120,559	$34,259,478	177,642	$42,609,814	228,990	$45,828,441	298,201	$76,869,292
Boring Machines	252	$22,482,512	190	$8,064,673	202	$15,715,447	442	$30,547,185
Drilling Machines	443	$24,049,019	523	$21,961,416	448	$16,978,514	966	$46,010,435
Gear Cutting Machines	136	$8,262,463	261	$12,397,010	134	$12,796,602	397	$20,659,473
Grinding Machines	1,786	$56,925,416	2,195	$79,763,620	2,134	$82,158,829	3,981	$136,689,036
Horizontal Lathes NC	1,051	$97,478,510	1,025	$95,576,414	1,147	$100,391,084	2,076	$193,054,924
Vertical Lathes NC	28	$3,235,245	53	$7,155,422	39	$8,783,392	81	$10,390,667
Lathes Non-NC	1,311	$20,363,228	1,334	$25,604,677	1,343	$19,093,990	2,645	$45,967,905
Milling Machines	1,161	$35,307,136	1,671	$21,721,010	1,645	$30,590,960	2,832	$57,028,146
Machining Centers	783	$88,175,391	937	$102,368,473	1,054	$113,156,725	1,720	$190,543,864
Station Type Machines	48	$6,825,601	54	$20,273,355	62	$22,455,926	102	$27,098,956
Other Metal Cutting	1,266	$49,258,720	1,265	$48,907,878	1,235	$43,959,525	2,531	$98,166,598
Punching & Shearing	427	$19,138,287	457	$18,466,581	461	$20,803,821	884	$37,604,868
Bending Forming Machines	576	$21,679,507	916	$28,504,110	523	$20,403,069	1,492	$50,183,617
Presses	582	$54,385,364	428	$30,202,049	385	$37,089,286	1,010	$84,587,413
Forging Machines	500	$21,116,697	355	$28,780,820	334	$17,142,825	855	$49,897,517
Other Metal Forming	2,157	$23,609,724	1,204	$31,066,588	557	$35,450,243	3,361	$54,676,312
TOTALS	133,066	$586,552,298	190,510	$623,423,910	240,693	$642,798,679	323,576	$1,209,976,208

PRODUCT TYPES	SEPTEMBER Y-T-D TOTALS UNITS	SEPTEMBER Y-T-D TOTALS VALUE	% CHANGE 1ST-2ND QUARTER UNITS	% CHANGE 1ST-2ND QUARTER VALUE	% CHANGE 2ND-3RD QUARTER UNITS	% CHANGE 2ND-3RD QUARTER VALUE
Used & Rebuilt & Under $2,500	527,191	$122,697,733	47.35%	24.37%	28.91%	7.55%
Boring Machines	644	$46,262,632	-24.60	-64.13	6.32	94.87
Drilling Machines	1,414	$62,988,949	18.06	-8.68	-14.34	-22.69
Gear Cutting Machines	531	$33,456,075	91.91	50.04	-48.66	3.22
Grinding Machines	6,115	$218,847,865	22.90	40.12	-2.78	3.00
Horizontal Lathes NC	3,223	$293,446,003	-2.47	-1.95	11.90	5.04
Vertical Lathes NC	120	$19,174,059	89.29	121.17	-26.42	22.75
Lathes Non-NC	3,988	$65,061,895	1.75	25.74	0.67	-25.43
Milling Machines	4,477	$87,619,106	43.93	-38.48	-1.56	40.84
Machining Centers	2,774	$303,700,589	19.67	16.10	12.49	10.54
Station Type Machines	164	$49,554,882	12.50	197.02	14.81	10.77
Other Metal Cutting	3,766	$142,126,123	-0.08	-0.71	-2.37	-10.12
Punching & Shearing	1,345	$58,408,689	7.03	-3.51	0.88	12.66
Bending Forming Machines	2,015	$70,586,686	59.03	31.48	-42.90	-28.42
Presses	1,395	$121,676,699	-26.46	-44.47	-10.05	22.80
Forging Machines	1,189	$67,040,342	-29.00	36.29	-5.92	-40.44
Other Metal Forming	3,918	$90,126,555	-44.18	31.58	-53.74	14.11
TOTALS	564,269	$1,852,774,887	43.17	6.29	26.34	3.11

U.S. IMPORTS
Metal Cutting Machine Tools - September 89

RELEASED: November 29, 1989

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC	548	45617	42	3876
301030	Traveling wire electro-discharge machines, non-NC	212	14364	20	965
301050	Electro-discharge machines, n.e.c., NC	135	7188	12	1265
301070	Electro-discharge machines, n.e.c., non-NC	266	9986	15	731
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1772	144110	213	16385
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	167	22214	23	3055
100035	Horiz. mach. ctrs., ATC	597	103529	73	11863
100045	Mach. ctrs., n.e.c.	238	33848	14	3259
200010	Unit construction mach. (single station transfer), NC	19	3356	0	0
200090	Unit construction mach. (single station transfer), non-NC	15	777	0	0
300010	Multi-station transfer machines, NC	25	19923	1	1817
300090	Multi-station transfer machines, non-NC	97	24958	3	710
8458110010	Horiz. lathes, multiple spindle, NC	266	41411	56	8831
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2403	177921	235	15772
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	487	64082	66	7945
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	67	10032	9	1398
190030	Horiz. engine or toolroom lathes, non-NC	2207	21151	152	1348
190050	Automatic bar and/or chucking mach., single spindle, non-NC	324	10563	16	245
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	76	3940	9	482
190090	Horiz. lathes, n.e.c., non-NC	740	10046	67	830
911060	Vertical turret lathes, multiple spindle, NC	22	8215	2	816
911080	Vertical turret lathes, n.e.c., NC	38	4686	5	422
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	682	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	58	5591	5	562
991050	Vertical turret lathes, non-NC	56	3117	16	75
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	585	16244	40	1605
8459100000	Way-type unit head machines	8	541	0	0
210080	Other drilling machines, NC	361	30237	21	1782
290040	Drilling machines, multiple spindle, non-NC	88	5544	11	82
290050	Drilling machines, radial, non-NC	364	2236	50	257
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	185	1451	2	28
290090	Drilling machines, n.e.c., non-NC	416	23521	12	395
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	11	2974	6	1078
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	131	12120	23	1675
310070	Boring-milling mach., n.e.c., NC	50	2875	1	8
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	31	1031	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	149	5240	4	77
400040	Boring machines, vertical, NC	15	6228	0	0
400050	Boring machines, vertical, non-NC	39	525	1	23
400070	Boring machines, n.e.c., NC	10	2459	0	0
400080	Boring machines, n.e.c., non-NC	208	12809	11	2185
510080	Milling machines, knee type, NC	962	13539	67	712
590030	Milling machines, knee type, non-NC	2581	24134	299	1468
610080	Milling machines, excl. knee type, n.e.c., NC	341	34011	29	3636
690050	Milling machines, profile, dup., or die sinking, non-NC	53	611	0	0
690070	Milling machines, bed type, non-NC	82	2473	4	170
690090	Milling machines, n.e.c., non-NC	458	12851	49	969
700020	Threading or tapping machines, n.e.c., NC	222	11847	20	743
700080	Threading or tapping machines, n.e.c., non-NC	227	8154	26	204
8460110080	Flat surface grinding mach., NC	135	10316	9	300
190010	Flat surface grinding mach., recip.-table type, non-NC	832	9200	88	1126
190050	Flat surface grinding mach., n.e.c., non-NC	1354	15507	179	1114
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	423	74799	43	5156
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	301	10862	29	1261
290030	Grinding mach., internal cylindrical, non-NC	121	10530	11	775
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	992	36487	77	4532
310080	Sharpening machines (tool & cutter grinding), NC	255	3051	67	799
390050	Sharpening machines (tool & cutter grinding), non-NC	504	6791	42	324
400060	Honing or lapping machines, NC	31	6200	0	0
400080	Honing or lapping machines, non-NC	124	4127	13	214
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	44	4378	4	565
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	999	26600	94	2106
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	4	84	0	0
200010	Shaping or slotting machines, NC	31	2381	2	189
200090	Shaping or slotting machines, non-NC	45	2278	5	813
300060	Broaching machines, NC	10	2317	1	251
300080	Broaching machines, non-NC	43	4021	3	11
401050	Gear hobbers	85	14787	5	904
401070	Gear shapers	10	1301	0	0
401090	Gear cutting machines, n.e.c.	281	949	1	1
405060	Gear grinding or finishing machines	155	16419	10	2316
500050	Sawing or cutting-off machines, NC	101	2522	7	132
500090	Sawing or cutting-off machines, non-NC	1399	18667	94	1182
9000000001	Metal cutting machine tools, n.e.c.	523	12699	42	874
9800000001	Used or rebuilt machine tools	5429	33018	478	4363
9900000001	Machine tools valued at less than $2,500	503794	71686	75101	8117
	Cutting Total			78135	137171
	Y-T-D Cutting Total	536439	1426942		
	NC Y-T-D Cutting Total	10022	917047		

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - September 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301030	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	2	135	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	7	50	6	52	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	48	390	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	1	628
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	6	29	0	0	0	0	1	174
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	3	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	10	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	3	21	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	20	460	0	0	0	0	2	208
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	23
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	16	0	0	1	11
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	1	1378	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	1	60	0	0	0	0
700020	0	0	0	0	0	0	0	0	4	58
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	26	276
190050	0	0	0	0	2	3	6	9	1	7
210080	0	0	0	0	0	0	0	0	1	79
290010	0	0	0	0	11	147	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	380
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	6	19	0	0	1	3
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	2	8	1	4	5	585
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	1	180
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	13	191	1	3	2	13
9000000001	0	0	0	0	0	0	15	265	0	0
9800000001	0	0	0	0	214	57	1	11	2	14
9900000001	182	2	1	2	297	60	95	26	1610	296
Month Tot	182	2	83	941	558	2014	121	452	1660	2936
Y-T-D Tot	326	4501	757	5110	2846	15685	1312	17967	26337	40635
NC YTD Tot	11	383	35	775	17	3226	43	2203	126	12527

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Cutting Machine Tools - September 89

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	41	3781	0	0	0	0	0	0	0	0
301030	7	530	0	0	0	0	0	0	0	0
301050	12	1265	0	0	0	0	0	0	0	0
301070	4	344	0	0	0	0	0	0	0	0
8457100015	149	13062	2	100	20	925	0	0	0	0
100025	21	2882	0	0	0	0	0	0	0	0
100035	67	10178	0	0	0	0	0	0	0	0
100045	1	1162	0	0	0	0	3	210	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	1817	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	47	6647	0	0	0	0	0	0	0	0
110030	207	14187	6	348	0	0	0	0	0	0
110050	63	7754	0	0	0	0	0	0	0	0
110090	1	233	1	102	0	0	1	100	0	0
190030	2	99	0	0	20	198	18	128	0	0
190050	1	72	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	9	334	0	0	0	0	0	0
911060	1	188	0	0	0	0	0	0	0	0
911080	3	299	2	123	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	5	562	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	13	829	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	17	1731	0	0	0	0	1	4	0	0
290040	11	82	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	1	20	0	0	0	0	0	0	0	0
290090	1	49	0	0	0	0	4	28	1	4
310010	1	375	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	1	45	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	54	362	0	0
590030	3	60	0	0	0	0	0	0	0	0
610080	0	0	0	0	2	83	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	1	113
690090	0	0	0	0	0	0	3	95	2	330
700020	16	684	0	0	0	0	0	0	0	0
700080	21	159	0	0	0	0	1	18	0	0
8460110080	4	186	0	0	0	0	0	0	0	0
190010	27	454	0	0	33	284	0	0	0	0
190050	20	149	0	0	0	0	0	0	3	8
210080	26	3198	0	0	0	0	0	0	0	0
290010	3	260	0	0	0	0	0	0	0	0
290030	1	48	0	0	0	0	0	0	0	0
290050	20	2269	0	0	1	28	1	9	5	440
310080	4	337	0	0	0	0	0	0	0	0
390050	3	20	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	103
900060	4	565	0	0	0	0	0	0	0	0
900080	58	693	8	54	0	0	0	0	1	8
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	1	177	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	1	251	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	1	198	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	7	132	0	0	0	0	0	0	0	0
500090	15	398	0	0	0	0	0	0	0	0
9000000001	4	485	0	0	0	0	0	0	0	0
9800000001	30	576	0	0	0	0	0	0	15	970
9900000001	6411	935	180	181	0	0	7	5	79	131
Month Tot	7345	79600	221	2070	76	1519	93	959	108	2107
Y-T-D Tot	47840	830090	5111	18921	618	11887	1595	14763	2069	9795
NC YTD Tot	6517	696129	130	8021	132	6414	501	5095	7	1506

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - September 89

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	1	95	0	0	0	0	0	0	0	0
301030	4	362	9	73	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	3	236	6	73	0	0	2	77	0	0
8457100015	0	0	9	468	24	1203	5	432	4	196
100025	0	0	0	0	0	0	0	0	2	174
100035	0	0	0	0	0	0	6	1684	0	0
100045	0	0	0	0	2	74	8	1812	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	2	276	0	0	0	0	1	433	0	0
8458110010	0	0	0	0	0	0	9	2183	0	0
110030	6	445	13	622	0	0	0	0	3	170
110050	0	0	1	56	0	0	0	0	0	0
110090	0	0	0	0	0	0	6	964	0	0
190030	0	0	47	313	27	339	0	0	25	169
190050	2	76	12	81	0	0	1	16	0	0
190070	2	424	7	58	0	0	0	0	0	0
190090	0	0	0	0	8	88	1	8	1	10
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	2	43	14	32	0	0	0	0	0	0
995090	0	0	0	0	5	307	1	175	14	91
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	39	0	0	1	4	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	17	80	0	0	0	0	32	167
290070	0	0	0	0	0	0	1	9	0	0
290090	0	0	0	0	1	7	2	286	0	0
310010	0	0	3	28	2	675	0	0	0	0
310040	0	0	0	0	0	0	1	1007	0	0
310070	0	0	0	0	0	0	1	8	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	3	32	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	1	382	0	0	3	496	4	1228	1	53
510080	0	0	1	9	12	341	0	0	0	0
590030	0	0	190	1012	73	277	0	0	33	119
610080	0	0	15	470	7	252	3	1450	1	3
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	3	57	0	0	0	0	0	0
690090	0	0	4	22	2	27	3	322	34	113
700020	0	0	0	0	0	0	0	0	0	0
700080	2	6	0	0	1	18	1	4	0	0
8460110080	0	0	0	0	0	0	5	113	0	0
190010	0	0	0	0	1	77	0	0	1	34
190050	0	0	137	828	9	48	1	62	0	0
210080	5	562	0	0	0	0	11	1318	0	0
290010	8	767	0	0	7	87	0	0	0	0
290030	8	225	0	0	0	0	2	502	0	0
290050	0	0	7	123	11	183	18	1012	13	86
310080	4	23	55	289	1	2	3	149	0	0
390050	1	3	0	0	7	65	14	187	10	27
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	9	86	1	11	2	13
900060	0	0	0	0	0	0	0	0	0	0
900080	1	89	0	0	7	40	8	592	3	33
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	1	12	0	0	0	0	0	0
200090	0	0	2	26	2	769	1	18	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	3	11	0	0	0	0
401050	0	0	0	0	0	0	2	511	1	15
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	1	1	0	0
405060	7	2265	0	0	0	0	0	0	3	50
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	45	185	5	21	12	368	1	3
9000000001	0	0	4	28	0	0	3	22	16	74
9800000001	1	60	5	35	59	1530	22	985	129	124
9900000001	201	29	59361	5566	188	131	798	368	5691	384
Month Tot	261	6369	59969	10587	476	7153	962	18356	6020	2108
Y-T-D Tot	1345	63539	342439	94464	5815	55324	8833	200111	89196	44151
NC YTD Tot	166	23251	821	19668	549	23797	681	105291	286	8761

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

RELEASED: November 29, 1989

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	2736	34563	20	6134
8462100030	Headers and upsetters, including cold headers	76	7727	6	643
100050	Forging or die stamping machines, and hammers, n.e.c.	1113	59314	45	3003
210080	Bending, folding, straight. or flat. mach., incl presses, NC	832	27549	48	1597
290030	Press brakes, non-NC	283	7523	15	453
290040	Bending rolls, non-NC	66	1709	5	96
290050	Bending, folding, straight., or flat., n.e.c., non-NC	834	33806	86	2364
310080	Shearing machines, NC	40	5026	7	1031
390050	Shearing machines, non-NC	565	11214	65	954
410080	Punching or notching mach., incl. comb. punch & shear, NC	292	31469	20	3449
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	448	10699	20	710
910060	Hydraulic presses, NC	28	3397	2	812
910090	Hydraulic presses, non-NC	394	20491	88	1481
990030	Presses, n.e.c., NC	40	4945	2	179
990040	Presses, mechanical, non-NC	66	23337	0	0
990060	Presses, n.e.c., non-NC	867	69507	42	2534
8463100080	Draw benches for bars, tubes, profiles, wire or the like	37	4961	2	23
200080	Thread rolling machines	42	2409	4	72
300080	Machines for working wire	514	25673	68	5409
900080	Metal forming machine tools, n.e.c.	589	22520	40	2259
9800000002	Used or rebuilt machine tools	701	12665	127	2231
9900000002	Machine tools valued at less than $2,500	17267	5329	1342	433
	Forming Total			2054	35866
	Y-T-D Forming Total	27830	425832		
	NC Y-T-D Forming Total	1232	72386		
	Cutting and Forming Totals:				
	Monthly Total			80189	173037
	Y-T-D Total	564269	1852775		
	NC Y-T-D Total	11254	989433		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	455662	0	36290
2710003070	Quenching or cutting oils	0	65	0	5
8428900010	Industrial robots for lifting, handling, loading or unload	1516	33410	87	1981
8456101010	Laser, light or photon beam for working metal, NC	80	11043	21	2250
101020	Laser, light or photon beam for working metal, non-NC	34	2951	4	385
105000	Laser, light or photon beam for other materials	1157	4119	24	751
201010	Ultrasonic processes for working metal, NC	6	952	0	0
201050	Ultrasonic processes for working metal, non-NC	12	29	1	4
205000	Ultrasonic processes for working other materials	134	451	1	4
8477106010	Injection molding mach., for rubber or oth. thermosetting	735	69149	43	3205
106050	Injection molding mach., for thermoplastics	1989	201383	165	11963
200010	Extruders for rubber or other thermosetting materials	163	18426	16	1717
200050	Extruders for processing thermoplastics	551	31614	58	2071
300000	Blow molding machines	227	35285	18	2282
400000	Vacuum-molding and other thermoforming machines	223	14457	39	377
8479899040	Industrial robots, n.e.c.	13459	102900	819	7547
908040	Industrial robot parts	0	26435	0	2722
8537100030	Numerical controls for controlling machine tools	9655	37546	2118	3171
9024100000	Machines and appliances for testing metals	0	10770	0	1266
9031100000	Machines for balancing mechanical parts	0	7621	0	1666
300000	Profile projectors	0	3818	0	325
9032810020	Industrial process control instr., hydraulic	158725	2172	27725	302
810060	Industrial process control instr., pneumatic	87778	2277	4780	189

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
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Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	3	50	0	0	1	360
8462100030	0	0	0	0	3	14	0	0	0	0
100050	0	0	0	0	7	167	1	2	0	0
210080	1	47	0	0	4	206	1	4	0	0
290030	3	57	0	0	9	283	0	0	0	0
290040	0	0	0	0	0	0	0	0	2	69
290050	0	0	1	9	19	291	0	0	7	63
310080	2	54	0	0	0	0	0	0	0	0
390050	0	0	0	0	7	205	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	3	76	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	7	209	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	951	0	0	15	511	1	72	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	2	1179	0	0	13	1474
900080	0	0	0	0	6	545	1	58	3	255
9800000002	0	0	0	0	94	246	0	0	4	138
9900000002	0	0	0	0	3	5	14	4	16	6
Month Tot	7	1110	1	9	182	3989	18	140	46	2365
Y-T-D Tot	431	16845	250	4518	3772	38909	116	1310	898	19498
NC YTD Tot	40	1482	0	0	18	980	10	235	11	921
C&F Month	189	1112	84	950	740	6002	139	592	1706	5301
C&F Y-T-D	757	21346	1007	9628	6618	54594	1428	19277	27235	60134
C&F NC YTD	51	1865	35	775	35	4206	53	2439	137	13449

Other Manufacturing Technology

1000000000	0	71	0	21	0	5986	0	210	0	353
2710003070	0	0	0	0	0	1	0	0	0	0
8428900010	0	0	0	0	22	290	0	0	0	0
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	1	7	0	0	2	1
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	3	605	3	410	0	0
106050	0	0	0	0	28	2382	0	0	7	1062
200010	0	0	0	0	1	3	7	213	0	0
200050	0	0	0	0	4	30	0	0	3	24
300000	0	0	0	0	1	73	9	675	0	0
400000	0	0	0	0	0	0	0	0	0	0
8479899040	0	0	0	0	1	106	0	0	1	44
908040	0	0	0	0	0	78	0	50	0	7
8537100030	0	0	0	0	0	0	0	0	1000	30
9024100000	0	0	0	50	0	142	0	151	0	0
9031100000	0	0	0	0	0	6	0	55	0	0
300000	0	0	0	0	0	0	0	0	0	6
9032810020	0	0	0	0	454	23	0	0	0	0
810060	0	0	0	0	0	0	0	0	350	30

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	9	5661	0	0	0	0	0	0	0	0
8462100030	2	600	0	0	0	0	0	0	0	0
100050	16	2212	2	26	1	3	0	0	0	0
210080	38	1201	0	0	0	0	0	0	0	0
290030	2	57	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	4
290050	14	1189	0	0	0	0	1	92	18	2
310080	1	196	0	0	0	0	0	0	0	0
390050	9	479	3	67	0	0	0	0	1	12
410080	9	1535	0	0	0	0	0	0	0	0
490050	10	296	0	0	0	0	0	0	1	16
910060	0	0	0	0	0	0	0	0	0	0
910090	34	362	1	27	0	0	0	0	2	238
990030	2	179	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	18	917	0	0	0	0	0	0	0	0
8463100080	2	23	0	0	0	0	0	0	0	0
200080	3	62	0	0	0	0	0	0	0	0
300080	28	1017	0	0	0	0	0	0	0	0
900080	21	1015	0	0	0	0	0	0	0	0
9800000002	3	617	0	0	0	0	0	0	2	108
9900000002	356	112	0	0	0	0	6	15	5	8
Month Tot	577	17729	6	120	1	3	7	106	30	628
Y-T-D Tot	4313	240233	66	295	54	729	480	2044	266	6584
NC YTD Tot	802	41852	0	0	0	0	1	50	6	492
C&F Month	7922	97329	227	2190	77	1522	100	1066	138	2735
C&F Y-T-D	52153	1070322	5177	19216	672	12615	2075	16807	2335	16379
C&F NC YTD	7319	737980	130	8021	132	6414	502	5145	13	1998

Other Manufacturing Technology

1000000000	0	10973	0	227	0	540	0	59	0	1010
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	26	1328	0	0	0	0	0	0	1	66
8456101010	11	2072	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	1	4	0	0	0	0	0	0	0	0
205000	1	4	0	0	0	0	0	0	0	0
8477106010	18	1132	0	0	0	0	0	0	0	0
106050	48	4273	4	141	0	0	0	0	0	0
200010	4	1238	0	0	0	0	0	0	0	0
200050	4	32	1	22	0	0	0	0	0	0
300000	3	1082	0	0	0	0	0	0	0	0
400000	1	103	0	0	0	0	0	0	0	0
8479899040	752	6705	0	0	2	4	0	0	3	118
908040	0	955	0	0	0	0	0	0	0	49
8537100030	971	3114	120	7	0	0	0	0	0	0
9024100000	0	391	0	0	0	0	0	0	0	75
9031100000	0	1534	0	0	0	0	0	0	0	0
300000	0	85	0	0	0	0	0	0	0	0
9032810020	0	0	5800	113	0	0	0	0	0	0
810060	157	39	0	0	0	0	0	0	489	98

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	6	46	1	17
8462100030	0	0	0	0	0	0	1	28	0	0
100050	0	0	2	19	11	408	4	130	1	36
210080	0	0	0	0	0	0	3	71	1	68
290030	0	0	0	0	0	0	0	0	1	55
290040	0	0	2	22	0	0	0	0	0	0
290050	2	19	1	136	1	130	8	49	14	144
310080	1	713	0	0	0	0	0	0	3	68
390050	0	0	5	21	12	47	23	107	5	16
410080	1	259	0	0	0	0	4	910	6	746
490050	0	0	3	287	0	0	3	35	0	0
910060	0	0	0	0	0	0	2	812	0	0
910090	0	0	4	23	3	14	2	566	35	42
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	4	11	1	35	0	0	1	3	1	35
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	1	10	0	0	0	0	0	0
300080	1	38	9	99	8	240	6	1357	1	5
900080	3	175	0	0	0	0	5	208	1	3
9800000002	0	0	0	0	3	22	15	827	6	273
9900000002	14	7	404	151	0	0	11	16	513	111
Month Tot	26	1221	432	801	38	861	94	5166	589	1618
Y-T-D Tot	1353	11886	7083	6704	682	10570	1297	52088	6769	13620
NC YTD Tot	28	3980	23	565	6	471	207	16136	80	5223
C&F Month	287	7590	60401	11388	514	8014	1056	23521	6609	3725
C&F Y-T-D	2698	75425	349522	101168	6497	65894	10130	252199	95965	57771
C&F NC YTD	194	27231	844	20233	555	24268	888	121426	366	13984

Other Manufacturing Technology

1000000000	0	2014	0	2657	0	3277	0	6388	0	2506
2710003070	0	0	0	0	0	0	0	3	0	0
8428900010	26	89	0	0	3	57	2	90	7	61
8456101010	1	35	0	0	8	55	1	88	0	0
101020	0	0	0	0	0	0	4	385	0	0
105000	0	0	0	0	3	101	4	510	14	132
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	5	283	0	0	10	602	4	172
106050	2	266	11	838	9	299	47	2359	9	342
200010	4	262	0	0	0	0	0	0	0	0
200050	0	0	0	0	9	335	34	1587	3	40
300000	0	0	1	21	0	0	4	431	0	0
400000	0	0	0	0	30	61	8	213	0	0
8479899040	1	5	6	83	6	25	23	223	24	235
908040	0	186	0	82	0	195	0	1011	0	109
8537100030	0	0	0	0	0	0	27	19	0	0
9024100000	0	25	0	0	0	126	0	20	0	286
9031100000	0	38	0	12	0	3	0	17	0	0
300000	0	0	0	0	0	187	0	0	0	48
9032810020	376	10	0	0	1900	9	1	2	19194	145
810060	112	3	3650	11	0	0	1	2	21	6

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	1	31	105	290	106	321
Bulgaria	0	0	0	0	0	0
Czechoslovakia	3	31	0	0	3	31
Denmark	42	78	1	65	43	143
East Germany	5	61	0	0	5	61
Finland	1	2	19	794	20	796
Hungary	0	0	0	0	0	0
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	9	10	11	202	20	211
Norway	0	0	0	0	0	0
Poland	17	101	0	0	17	101
Portugal	10	53	0	0	10	53
Romania	0	0	0	0	0	0
USSR	0	0	0	0	0	0
Yugoslavia	2	21	0	0	2	21
Oth Europe	0	0	1	36	1	36
TOTAL	3953	38720	403	12984	4356	51704
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	2	93	70	121	72	214
Oth N & C Am.	0	0	0	0	0	0
TOTAL	560	2107	252	4109	812	6216
SOUTH AMERICA						
Argentina	2	13	0	0	2	13
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	85	954	1	9	86	963
OCEANIA						
Australia	0	0	0	0	0	0
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	5909	1065	364	25	6273	1090
Hong Kong	5	173	12	37	17	210
India	6	8	3	5	9	13
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	6	369	3	43	9	412
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	73537	95390	1398	18764	74935	114155
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Cutting Machine Tools - September 89

RELEASED: November 29, 1989

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	318	3538	3	249
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	22	3470	5	780
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	5	954	1	87
100035	Horiz. mach. ctrs., ATC	40	16370	3	3197
100045	Mach. ctrs., n.e.c.	192	13487	66	3402
200010	Unit construction mach. (single station transfer), NC	3	2683	0	0
200090	Unit construction mach. (single station transfer), non-NC	7	4268	3	3294
300010	Multi-station transfer machines, NC	5	5279	1	345
300090	Multi-station transfer machines, non-NC	16	3400	3	488
8458110010	Horiz. lathes, multiple spindle, NC	3	534	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	133	11036	16	1555
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	39	6974	12	2393
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	8	1767	4	1382
190030	Horiz. engine or toolroom lathes, non-NC	75	1783	4	58
190050	Automatic bar and/or chucking mach., single spindle, non-NC	16	59	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	35	2546	4	113
190090	Horiz. lathes, n.e.c., non-NC	187	2446	27	270
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	5	863	0	0
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	1	273	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	9	898	0	0
991050	Vertical turret lathes, non-NC	20	650	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	54	2933	2	91
8459100000	Way-type unit head machines	13	2814	0	0
210080	Other drilling machines, NC	80	6101	12	955
290040	Drilling machines, multiple spindle, non-NC	19	1120	1	82
290050	Drilling machines, radial, non-NC	24	922	3	159
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	68	953	43	23
290090	Drilling machines, n.e.c., non-NC	98	3930	15	449
310010	Boring-milling mach., horiz. spind., table, excl. planer,	5	1799	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	2	558	1	193
310070	Boring-milling mach., n.e.c., NC	28	2160	0	0
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	30	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	100	2012	0	0
400040	Boring machines, vertical, NC	4	1294	2	112
400050	Boring machines, vertical, non-NC	30	1018	3	51
400070	Boring machines, n.e.c., NC	1	1350	0	0
400080	Boring machines, n.e.c., non-NC	40	2519	1	100
510080	Milling machines, knee type, NC	24	1600	2	133
590030	Milling machines, knee type, non-NC	38	1881	3	102
610080	Milling machines, excl. knee type, n.e.c., NC	42	5129	3	276
690050	Milling machines, profile, dup., or die sinking, non-NC	21	1095	0	0
690070	Milling machines, bed type, non-NC	55	7023	5	390
690090	Milling machines, n.e.c., non-NC	266	6130	17	565
700020	Threading or tapping machines, n.e.c., NC	25	1131	7	652
700080	Threading or tapping machines, n.e.c., non-NC	221	5838	34	341
8460110080	Flat surface grinding mach., NC	110	8803	3	1061
190010	Flat surface grinding mach., recip.-table type, non-NC	70	1017	12	158
190050	Flat surface grinding mach., n.e.c., non-NC	94	8385	9	421
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	304	22654	48	2251
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	38	4285	7	963
290030	Grinding mach., internal cylindrical, non-NC	41	3851	1	317
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	394	17929	30	950
310080	Sharpening machines (tool & cutter grinding), NC	34	3863	6	2655
390050	Sharpening machines (tool & cutter grinding), non-NC	790	7492	21	118
400060	Honing or lapping machines, NC	2	58	0	0
400080	Honing or lapping machines, non-NC	554	7018	45	604
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	27	2695	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	410	10346	52	1091
8461100060	Planing machines, NC	6	3712	0	0
100080	Planing machines, non-NC	131	4849	16	930
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	38	1136	1	30
300060	Broaching machines, NC	1	248	0	0
300080	Broaching machines, non-NC	47	2119	5	107
401050	Gear hobbers	33	4727	2	70
401070	Gear shapers	58	4223	1	29
401090	Gear cutting machines, n.e.c.	56	13262	4	2628
405060	Gear grinding or finishing machines	45	6025	1	32
500050	Sawing or cutting-off machines, NC	30	1684	5	432
500090	Sawing or cutting-off machines, non-NC	774	10501	103	1673
9000000001	Metal cutting machine tools, n.e.c.	204	10051	27	934
9800000001	Used or rebuilt machine tools	5004	40744	525	4982
9900000001	Machine tools valued at less than $2,500	31794	11417	5451	1403
	Cutting Total			6681	46124
	Y-T-D Cutting Total	43487	357714		
	NC Y-T-D Cutting Total*	1241	134462		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - September 89

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	2	340
100025	0	0	0	0	0	0	0	0	1	87
100035	0	0	0	0	0	0	1	296	2	2901
100045	0	0	0	0	0	0	0	0	2	98
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	229
8458110010	0	0	0	0	0	0	0	0	0	0
110030	1	67	0	0	1	137	0	0	5	547
110050	0	0	0	0	0	0	0	0	8	1278
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	2	29
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	1	48
190090	0	0	0	0	0	0	0	0	3	12
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	40
290040	0	0	0	0	0	0	1	82	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	5	112
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	100
510080	0	0	0	0	0	0	0	0	2	133
590030	1	52	0	0	0	0	0	0	2	50
610080	2	210	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	5	390
690090	1	14	0	0	0	0	1	47	1	195
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	2	225	0	0	6	47
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	1	20
190050	0	0	0	0	0	0	0	0	3	47
210080	0	0	0	0	0	0	0	0	1	32
290010	0	0	0	0	0	0	0	0	5	900
290030	0	0	0	0	0	0	1	317	0	0
290050	0	0	0	0	0	0	0	0	2	129
310080	0	0	0	0	0	0	0	0	0	0
390050	2	6	0	0	0	0	0	0	3	17
400060	0	0	0	0	0	0	0	0	0	0
400080	1	16	0	0	0	0	0	0	6	57
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	0	0	8	64
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	1	219
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	30
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	2	73
500090	3	52	0	0	0	0	11	182	31	352
9000000001	0	0	0	0	0	0	0	0	1	13
9800000001	13	323	0	0	0	0	16	40	58	437
9900000001	32	23	7	4	0	0	28	9	2505	253
Month Tot	56	761	7	4	3	362	59	973	2679	9278
Y-T-D Tot	708	8186	57	987	168	5588	341	7614	19605	43477
NC YTD Tot*	13	1264	4	380	31	3478	41	3138	168	17294

Please see notes on last page of the metal forming section.

U.S. EXPORTS
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	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	1	395	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	4	1115	0	0	0	0	0	0	0	0
110090	2	982	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	2	18	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	30	0	0	1	355	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	3	33
700020	1	14	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	1	322	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	1	25
390050	0	0	1	7	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	20	10	174	0	0	0	0	6	63
900060	0	0	0	0	0	0	0	0	0	0
900080	2	441	0	0	0	0	0	0	1	21
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	1	65	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	20	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	1	21	0	0	0	0	1	13
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	2	460	6	173	3	37	0	0	38	650
9900000001	0	0	0	0	2	3	0	0	0	0
Month Tot	14	3457	20	459	8	413	1	322	50	805
Y-T-D Tot	472	22262	623	9980	187	8439	98	4096	443	10859
NC YTD Tot*	92	13891	47	6608	5	1694	6	1968	8	1171

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - September 89

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	1	151	0	0	0	0	0	0	0	0
8457100015	0	0	1	87	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	47	1791	0	0	4	246	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	2528	0	0
300010	0	0	1	345	0	0	0	0	0	0
300090	0	0	1	258	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	1	86	0	0	1	89	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	10	91	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	75	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	2	63	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	1	5	3	263	0	0	5	55	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	3	51	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	1	66	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	3	161	0	0	5	25	0	0
700020	0	0	3	570	0	0	0	0	0	0
700080	0	0	0	0	0	0	11	30	0	0
8460110080	0	0	1	714	0	0	0	0	0	0
190010	0	0	0	0	0	0	1	10	0	0
190050	2	354	0	0	0	0	2	11	0	0
210080	24	1228	0	0	0	0	14	566	0	0
290010	0	0	0	0	0	0	2	63	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	10	615	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	4	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	35	0	0	1	6	6	29
900060	0	0	0	0	0	0	0	0	0	0
900080	6	182	3	27	0	0	14	139	1	8
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	11	220	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	2	45	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	2	132	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	1	34	0	0	0	0	0	0	0	0
500090	4	270	19	323	0	0	6	54	9	61
9000000001	12	642	0	0	0	0	4	38	0	0
9800000001	6	209	23	460	0	0	182	710	0	0
9900000001	296	159	64	55	8	5	645	338	0	0
Month Tot	353	3235	174	5224	11	203	935	6023	16	98
Y-T-D Tot	2672	24351	1490	33203	80	927	5722	49411	406	3524
NC YTD Tot*	122	7989	112	12875	3	135	141	10528	19	1900

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - September 89

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	2	98	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	12	871	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	1	94	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	27	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	193	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	2	112	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	3	68	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	9	122	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	21	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	31	0	0	1	35	2	27	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	13	0	0
401050	0	0	0	0	2	70	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	1	32	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	1	19	2	34	0	0	0	0	0	0
9000000001	2	72	0	0	0	0	2	9	0	0
9800000001	11	278	0	0	0	0	0	0	0	0
9900000001	18	16	0	0	0	0	20	8	0	0
Month Tot	35	443	2	34	7	256	53	1517	0	0
Y-T-D Tot	661	6351	220	2807	235	3010	576	7167	84	1876
NC YTD Tot*	30	2170	1	677	16	1614	34	2562	18	655

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - September 89

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	1	196	0	0	1	157
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	2	765	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	5	413	0	0	1	122	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	2	400
190030	0	0	0	0	0	0	1	15	1	14
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	3	65	0	0
190090	1	5	0	0	3	57	1	3	7	83
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	16	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	6	440
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	3	159
290070	43	23	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	1	14
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	1	31	2	60
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	5	13	0	0	10	26
8460110080	0	0	0	0	0	0	0	0	1	25
190010	0	0	0	0	0	0	0	0	1	7
190050	0	0	0	0	0	0	0	0	2	10
210080	0	0	3	118	0	0	4	253	1	33
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	18	206	0	0
310080	0	0	5	2630	0	0	0	0	0	0
390050	0	0	0	0	0	0	13	82	1	3
400060	0	0	0	0	0	0	0	0	0	0
400080	3	60	0	0	0	0	0	0	5	51
900060	0	0	0	0	0	0	0	0	0	0
900080	3	10	0	0	0	0	8	162	6	38
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	75	0	0	0	0	2	351	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	29	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	1	29
401090	0	0	2	2496	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	2	325
500090	5	119	0	0	1	20	6	109	3	45
9000000001	0	0	2	15	1	20	0	0	3	125
9800000001	46	486	0	0	0	0	38	130	83	591
9900000001	132	152	0	0	16	10	97	58	1581	309
Month Tot	241	2109	12	5259	28	438	194	1508	1723	2943
Y-T-D Tot	2164	37038	32	6479	274	5113	1447	23207	4722	26761
NC YTD Tot*	139	21351	22	3238	7	601	63	8768	99	8512

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

RELEASED: November 29, 1989

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	427	6797	34	254
8462100030	Headers and upsetters, including cold headers	57	12912	6	1511
100050	Forging or die stamping machines, and hammers, n.e.c.	546	16314	103	1869
210080	Bending, folding, straight. or flat. mach., incl presses, NC	262	16939	21	986
290030	Press brakes, non-NC	29	1255	2	59
290040	Bending rolls, non-NC	46	1410	1	27
290050	Bending, folding, straight., or flat., n.e.c., non-NC	442	17083	39	2046
310080	Shearing machines, NC	47	3649	8	507
390050	Shearing machines, non-NC	157	3444	36	693
410080	Punching or notching mach., incl. comb. punch & shear, NC	125	19574	20	1988
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	615	18969	58	1769
910060	Hydraulic presses, NC	68	3642	3	113
910090	Hydraulic presses, non-NC	434	19659	65	3348
990030	Presses, n.e.c., NC	38	4776	2	443
990040	Presses, mechanical, non-NC	130	6461	2	709
990060	Presses, n.e.c., non-NC	466	25462	51	1653
8463100080	Draw benches for bars, tubes, profiles, wire or the like	221	4830	10	269
200080	Thread rolling machines	29	2510	0	0
300080	Machines for working wire	735	25751	41	2287
900080	Metal forming machine tools, n.e.c.	1768	84718	123	8208
9800000002	Used or rebuilt machine tools	2719	55363	179	3455
9900000002	Machine tools valued at less than $2,500	4701	3534	382	313
	Forming Total			1186	32509
	Y-T-D Forming Total	14062	355051		
	NC Y-T-D Forming Total	540	48580		
	Cutting and Forming Totals:				
	Monthly Total			7867	78632
	Y-T-D Total	57549	712764		
	NC Y-T-D Total*	1781	183042		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	535700	0	58144
2710003070	Quenching or cutting oils	0	8975	0	1407
8428900010	Industrial robots for lifting, handling, loading or unload	715	10224	30	118
8456100000	Laser, light or photon beam for working any material	2036	32798	63	2088
200000	Ultrasonic process for working any material	83	612	5	143
8477106010	Injection molding mach., for rubber or oth. thermosetting	165	14207	17	901
106050	Injection molding mach., for thermoplastics	333	37170	37	2952
200010	Extruders for rubber or other thermosetting materials	220	9605	48	1674
200050	Extruders for processing thermoplastics	747	30374	64	2657
300000	Blow molding machines	313	23368	29	1524
400000	Vacuum-molding and other thermoforming machines	1384	13172	331	1569
8479899040	Industrial robots, n.e.c.	1857	25660	160	2609
900040	Industrial robot parts	0	10176	0	832
8537100030	Numerical controls for controlling machine tools	8500	31572	231	3136
9024100000	Machines and appliances for testing metals	0	56526	0	5176
9031100000	Machines for balancing mechanical parts	0	17186	0	1292
300000	Profile projectors	0	6279	0	461
9032810040	Industrial process control instr., hydraulic or pneumatic	478142	33109	70356	4343

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
September 89

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	11	116
8462100030	0	0	0	0	0	0	2	299	0	0
100050	0	0	0	0	1	27	1	29	5	141
210080	0	0	0	0	0	0	1	14	2	275
290030	0	0	0	0	0	0	0	0	1	51
290040	0	0	0	0	0	0	0	0	0	0
290850	0	0	0	0	0	0	2	20	11	264
310080	0	0	0	0	0	0	0	0	3	240
390050	0	0	0	0	0	0	0	0	2	14
410080	2	156	0	0	0	0	0	0	16	1658
490050	0	0	0	0	0	0	0	0	30	243
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	0	0	7	352
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	126	0	0	1	7	0	0	26	367
8463100080	1	72	0	0	0	0	0	0	1	7
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	1	8	2	31	7	129
900080	1	22	0	0	0	0	0	0	6	87
9800000002	0	0	0	0	0	0	2	83	28	579
9900000002	66	57	0	0	35	32	0	0	138	107
Month Tot	71	434	0	0	38	74	10	476	294	4630
Y-T-D Tot	431	5470	106	662	134	2385	106	5809	2322	33227
NC YTD Tot	23	1183	0	0	0	0	10	701	114	11716
C&F Month	127	1195	7	4	41	436	69	1448	2973	13908
C&F Y-T-D	1139	13656	163	1650	302	7974	447	13422	21927	81703
C&F NC YTD*	36	2447	4	380	31	3478	51	3838	282	29010

Other Manufacturing Technology

1000000000	0	1008	0	139	0	609	0	970	0	10970
2710003070	0	97	0	0	0	3	0	164	0	104
8428900010	0	0	0	0	0	0	0	0	4	20
8456100000	0	0	0	0	1	18	0	0	18	641
200000	0	0	0	0	0	0	0	0	1	50
8477106010	1	128	0	0	0	0	0	0	5	179
106050	0	0	0	0	0	0	1	42	1	153
200010	0	0	0	0	0	0	0	0	0	0
200050	2	416	0	0	0	0	0	0	4	79
300000	0	0	0	0	0	0	0	0	1	437
400000	29	248	0	0	0	0	0	0	14	244
8479899040	0	0	0	0	0	0	3	15	28	578
900040	0	0	0	0	0	4	0	0	0	78
8537100030	7	97	1	8	1	11	0	0	18	263
9024100000	0	139	0	22	0	91	0	5	0	238
9031100000	0	0	0	0	0	0	0	2	0	424
300000	0	4	0	0	0	5	0	0	0	17
9032810040	2488	140	97	11	2270	102	1215	61	3816	436

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	1	13	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	14	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	2	103	0	0	0	0	2	29
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	1	9	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	2	973	0	0	3	17
990030	0	0	0	0	0	0	0	0	1	269
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	3	69	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	892	3	94	0	0	0	0	1	10
900080	0	0	5	133	0	0	0	0	0	0
9800000002	0	0	31	75	0	0	0	0	0	0
9900000002	0	0	4	2	0	0	0	0	0	0
Month Tot	1	892	49	491	4	996	0	0	7	324
Y-T-D Tot	234	8915	369	5832	91	7560	25	152	173	6708
NC YTD Tot	21	522	5	406	4	1067	1	15	5	2547
C&F Month	15	4349	69	950	12	1408	1	322	57	1129
C&F Y-T-D	706	31177	992	15813	278	15999	123	4249	616	17567
C&F NC YTD*	113	14413	52	7014	9	2762	7	1983	13	3718

Other Manufacturing Technology

1000000000	0	912	0	1454	0	266	0	20	0	1297
2710003070	0	0	0	0	0	0	0	9	0	0
8428900010	0	0	0	0	0	0	0	0	1	5
8456100000	0	0	2	101	6	139	0	0	1	15
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	1	229	0	0	0	0	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
8479899040	0	0	4	136	0	0	0	0	2	10
900040	0	0	0	69	0	0	0	0	0	0
8537100030	0	0	19	282	0	0	0	0	4	58
9024100000	0	0	0	501	0	15	0	0	0	104
9031100000	0	309	0	0	0	0	0	0	0	11
300000	0	0	0	0	0	0	0	0	0	12
9032810040	0	0	4230	297	102	9	8	5	7258	419

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	7	12	0	0	0	0	2	17	0	0
8462100030	2	390	1	816	0	0	1	6	0	0
100050	9	178	4	93	0	0	31	379	0	0
210080	1	25	9	359	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	8	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	4	86	0	0	0	0	2	18	3	79
310080	2	87	0	0	0	0	0	0	0	0
390050	10	157	2	153	0	0	0	0	0	0
410080	0	0	0	0	0	0	1	140	0	0
490050	3	82	2	38	1	9	11	92	0	0
910060	0	0	0	0	0	0	1	8	0	0
910090	0	0	7	1339	0	0	43	522	0	0
990030	1	174	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	15	434	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	5	92	0	0	0	0	9	191	2	19
900080	14	239	5	2464	0	0	5	56	0	0
9800000002	0	0	8	1050	1	29	64	489	0	0
9900000002	0	0	0	0	0	0	27	31	0	0
Month Tot	58	1521	38	6312	2	38	213	2393	5	98
Y-T-D Tot	771	36895	810	50517	24	1378	2652	32142	361	5750
NC YTD Tot	95	7350	45	3618	6	922	41	3270	19	2326
C&F Month	411	4756	212	11536	13	241	1148	8415	21	197
C&F Y-T-D	3443	61247	2300	83720	104	2305	8374	81553	767	9274
C&F NC YTD*	217	15339	157	16493	9	1058	182	13798	38	4226

Other Manufacturing Technology

1000000000	0	5542	0	2725	0	250	0	4250	0	544
2710003070	0	35	0	0	0	37	0	58	0	0
8428900010	0	0	0	0	0	0	22	41	0	0
8456100000	19	621	1	17	0	0	1	25	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	1	85	0	0	0	0	8	331	0	0
106050	0	0	0	0	0	0	7	351	15	1156
200010	0	0	13	314	0	0	8	494	0	0
200050	0	0	0	0	1	20	31	1119	0	0
300000	0	0	2	41	0	0	9	537	0	0
400000	7	26	1	3	0	0	22	411	1	37
8479899040	51	693	1	51	0	0	0	0	0	0
900040	0	184	0	105	0	0	0	8	0	17
8537100030	1	14	3	41	0	0	2	44	1	69
9024100000	0	945	0	920	0	3	0	165	0	309
9031100000	0	19	0	78	0	5	0	189	0	0
300000	0	122	0	30	0	0	0	0	0	0
9032810040	3033	237	259	84	0	0	279	53	6320	351

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
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Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	5	25	1	12
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	3	47	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	18	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	19	0	0	3	35
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	17	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	1	4	2	301	0	0	0	0	0	0
910060	0	0	1	94	0	0	1	11	0	0
910090	0	0	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	6	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
900080	1	15	0	0	0	0	3	2963	0	0
9800000002	3	9	0	0	1	15	6	100	2	39
9900000002	2	2	0	0	0	0	59	50	0	0
Month Tot	8	35	6	443	2	34	76	3185	6	86
Y-T-D Tot	170	6645	98	3693	41	1214	221	15054	72	3320
NC YTD Tot	15	2546	1	94	8	375	12	1425	5	414
C&F Month	43	478	8	477	9	290	129	4701	6	86
C&F Y-T-D	831	12995	318	6500	276	4224	797	22221	156	5196
C&F NC YTD*	45	4716	2	771	24	1989	46	3987	23	1069

Other Manufacturing Technology

1000000000	0	1233	0	527	0	839	0	840	0	721
2710003070	0	40	0	0	0	0	0	249	0	2
8428900010	0	0	0	0	0	0	0	0	0	0
8456100000	3	78	0	0	0	0	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	1	30	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	11	515	0	0
200050	0	0	0	0	0	0	5	123	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	219	50	0	0	0	0
8479899040	1	7	1	51	0	0	0	0	0	0
900040	0	5	0	0	0	3	0	6	0	0
8537100030	5	78	4	32	1	13	10	139	0	0
9024100000	0	72	0	20	0	21	0	706	0	11
9031100000	0	0	0	0	0	5	0	0	0	39
300000	0	14	0	160	0	0	0	4	0	0
9032810040	3899	274	544	37	442	22	657	36	10010	30

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.

* "C&F NC YTD" does not include code 8456300000.

Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	28	0	0	0	0	1	2	4	29
8462100030	0	0	0	0	0	0	0	0	0	0
100050	20	386	0	0	9	187	1	25	19	377
210080	0	0	0	0	0	0	0	0	6	281
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	27
290050	1	54	0	0	0	0	5	173	3	1164
310080	1	69	1	69	0	0	0	0	1	41
390050	0	0	0	0	0	0	0	0	21	352
410080	0	0	0	0	0	0	0	0	1	34
490050	2	6	0	0	0	0	2	938	3	46
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	0	0	1	125	2	21
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	694	0	0	0	0	1	14
990060	4	196	0	0	0	0	2	431	1	87
8463100080	0	0	0	0	0	0	0	0	5	122
200080	0	0	0	0	0	0	0	0	0	0
300080	5	175	2	106	0	0	2	184	1	356
900080	1	9	0	0	1	13	6	81	75	2126
9800000002	1	5	0	0	0	0	13	767	19	215
9900000002	15	13	0	0	0	0	3	2	33	16
Month Tot	52	942	4	869	10	200	36	2728	196	5310
Y-T-D Tot	1005	35021	6	977	180	7686	707	20012	2953	58026
NC YTD Tot	50	2625	3	176	3	89	6	904	48	4288
C&F Month	293	3050	16	6128	38	638	230	4236	1919	8253
C&F Y-T-D	3169	72060	38	7456	454	12799	2154	43219	7675	84787
C&F NC YTD*	189	23975	25	3415	10	690	69	9672	147	12800

Other Manufacturing Technology

1000000000	0	7584	0	26	0	644	0	6070	0	8706
2710003070	0	20	0	0	0	4	0	0	0	586
8428900010	1	30	0	0	0	0	2	22	0	0
8456100000	2	46	0	0	0	0	3	244	6	144
200000	4	93	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	1	82	1	95
106050	4	286	0	0	0	0	4	419	4	515
200010	0	0	0	0	0	0	16	352	0	0
200050	1	5	0	0	0	0	1	30	18	635
300000	6	6	0	0	0	0	8	426	3	77
400000	2	3	0	0	0	0	34	462	2	85
8479899040	5	305	1	50	0	0	49	558	14	157
900040	0	203	0	0	0	0	0	102	0	46
8537100030	107	1314	0	0	0	0	32	459	15	215
9024100000	0	148	0	4	0	8	0	445	0	283
9031100000	0	55	0	0	0	17	0	5	0	134
300000	0	26	0	0	0	0	0	0	0	66
9032810040	8843	656	1	10	2502	136	8105	600	3978	339

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Cutting and Metal Forming Machine Tool Totals
September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	0	0	48	695	48	695
East Germany	0	0	0	0	0	0
Finland	0	0	1	27	1	27
Greece	0	0	1	34	1	34
Hungary	0	0	2	83	2	83
Iceland	0	0	0	0	0	0
Ireland	0	0	18	343	18	343
Luxembourg	0	0	0	0	0	0
Norway	1	14	0	0	1	14
Poland	0	0	5	1345	5	1345
Portugal	2	14	0	0	2	14
Romania	0	0	0	0	0	0
Sweden	11	42	26	406	37	448
Turkey	1	46	1	7	2	53
Yugoslavia	8	116	1	87	9	203
Oth Europe	0	0	0	0	0	0
TOTAL	575	11128	302	9030	877	20157
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	2	25	0	0	2	25
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	133	54	3	8	136	61
Dominican Rep	12	11	5	110	17	121
El Salvador	1	2	5	15	6	17
Guatemala	0	0	7	57	7	57
Haiti	0	0	1	10	1	10
Honduras	0	0	0	0	0	0
Jamaica	6	319	1	16	7	336
Panama	0	0	1	45	1	45
Trinidad	0	0	1	6	1	6
Oth N & C Am.	0	0	2	60	2	60
TOTAL	3768	15712	533	7349	4301	23061
SOUTH AMERICA						
Argentina	0	0	3	59	3	59
Bolivia	0	0	0	0	0	0
Chile	137	473	1	35	138	508
Colombia	77	107	2	364	79	471
Ecuador	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	5	51	0	0	5	51
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	306	2041	26	1134	332	3175
OCEANIA						
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	56	761	71	434	127	1195

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	1248	182	13	340	1261	522
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	15	261	1	26	16	287
Jordan	0	0	0	0	0	0
Kuwait	11	39	0	0	11	39
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	2	2	0	0	2	2
Oman	0	0	0	0	0	0
Pakistan	2	2	0	0	2	2
Philippines	34	140	4	84	38	223
Qatar	0	0	0	0	0	0
Saudi Arabia	9	745	41	1039	50	1784
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	0	0	0	0	0	0
Vietnam	0	0	0	0	0	0
Oth Asia	2	21	0	0	2	21
TOTAL	1972	16206	252	14553	2224	30759
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	2	169	1	5	3	174
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	1	6	1	5	2	11
South Africa	1	100	0	0	1	100
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	4	275	2	10	6	285

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.

U.S. IMPORTS

Metal Cutting Machine Tools - January 89 - September 89

RELEASED: November 29, 1989

		TOTAL YTD UNITS	TOTAL YTD $000
8456301010	Traveling wire electro-discharge machines, NC	548	45617
301030	Traveling wire electro-discharge machines, non-NC	212	14364
301050	Electro-discharge machines, n.e.c., NC	135	7188
301070	Electro-discharge machines, n.e.c., non-NC	266	9986
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1772	144110
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	167	22214
100035	Horiz. mach. ctrs., ATC	597	103529
100045	Mach. ctrs., n.e.c.	238	33848
200010	Unit construction mach. (single station transfer), NC	19	3356
200090	Unit construction mach. (single station transfer), non-NC	15	777
300010	Multi-station transfer machines, NC	25	19923
300090	Multi-station transfer machines, non-NC	97	24958
8458110010	Horiz. lathes, multiple spindle, NC	266	41411
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2403	177921
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	487	64082
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	67	10032
190030	Horiz. engine or toolroom lathes, non-NC	2207	21151
190050	Automatic bar and/or chucking mach., single spindle, non-NC	324	10563
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	76	3940
190090	Horiz. lathes, n.e.c., non-NC	740	10046
911060	Vertical turret lathes, multiple spindle, NC	22	8215
911080	Vertical turret lathes, n.e.c., NC	38	4686
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	682
915070	Vertical lathes, excl. VTL's, n.e.c., NC	58	5591
991050	Vertical turret lathes, non-NC	56	3117
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	585	16244
8459100000	Way-type unit head machines	8	541
210080	Other drilling machines, NC	361	30237
290040	Drilling machines, multiple spindle, non-NC	88	5544
290050	Drilling machines, radial, non-NC	364	2236
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	185	1451
290090	Drilling machines, n.e.c., non-NC	416	23521
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	11	2974
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	131	12120
310070	Boring-milling mach., n.e.c., NC	50	2875
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	31	1031
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	149	5240
400040	Boring machines, vertical, NC	15	6228
400050	Boring machines, vertical, non-NC	39	525
400070	Boring machines, n.e.c., NC	10	2459
400080	Boring machines, n.e.c., non-NC	208	12809
510080	Milling machines, knee type, NC	962	13539
590030	Milling machines, knee type, non-NC	2581	24134
610080	Milling machines, excl. knee type, n.e.c., NC	341	34011
690050	Milling machines, profile, dup., or die sinking, non-NC	53	611
690070	Milling machines, bed type, non-NC	82	2473
690090	Milling machines, n.e.c., non-NC	458	12851
700020	Threading or tapping machines, n.e.c., NC	222	11847
700080	Threading or tapping machines, n.e.c., non-NC	227	8154
8460110080	Flat surface grinding mach., NC	135	10316
190010	Flat surface grinding mach., recip.-table type, non-NC	832	9200
190050	Flat surface grinding mach., n.e.c., non-NC	1354	15507
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	423	74799
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	301	10862
290030	Grinding mach., internal cylindrical, non-NC	121	10530
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	992	36487
310080	Sharpening machines (tool & cutter grinding), NC	255	3051
390050	Sharpening machines (tool & cutter grinding), non-NC	504	6791
400060	Honing or lapping machines, NC	31	6200
400080	Honing or lapping machines, non-NC	124	4127
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	44	4378
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	999	26600
8461100060	Planing machines, NC	0	0
100080	Planing machines, non-NC	4	84
200010	Shaping or slotting machines, NC	31	2381
200090	Shaping or slotting machines, non-NC	45	2278
300060	Broaching machines, NC	10	2317
300080	Broaching machines, non-NC	43	4021
401050	Gear hobbers	85	14787
401070	Gear shapers	10	1301
401090	Gear cutting machines, n.e.c.	281	949
405060	Gear grinding or finishing machines	155	16419
500050	Sawing or cutting-off machines, NC	101	2522
500090	Sawing or cutting-off machines, non-NC	1399	18667
9000000001	Metal cutting machine tools, n.e.c.	523	12699
9800000001	Used or rebuilt machine tools	5429	33018
9900000001	Machine tools valued at less than $2,500	503794	71686
	Y-T-D Cutting Total	536439	1426942
	NC Y-T-D Cutting Total	10022	917047

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - January 89 - September 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	2	74	0	0	0	0	0	0	0	0
301030	0	0	0	0	7	205	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	1	2	12	214	1	8
8457100015	0	0	0	0	1	77	6	474	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	51	2483
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	1	217
300010	0	0	0	0	0	0	0	0	5	2962
300090	0	0	0	0	16	2212	0	0	7	3544
8458110010	0	0	0	0	1	109	0	0	1	239
110030	0	0	10	59	0	0	6	364	0	0
110050	0	0	3	9	0	0	14	1159	0	0
110090	0	0	0	0	0	0	2	128	1	382
190030	0	0	147	1178	9	78	0	0	1	7
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	1	3	413	2493	0	0	3	19	7	292
911060	0	0	0	0	0	0	0	0	1	628
911080	0	0	0	0	0	0	0	0	1	45
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	1	16	0	0	0	0	2	161
991050	0	0	8	30	0	0	0	0	0	0
995090	0	0	37	167	22	311	1	95	26	709
8459100000	0	0	0	0	0	0	0	0	1	133
210080	0	0	0	0	4	19	0	0	12	1004
290040	0	0	0	0	0	0	0	0	10	45
290050	0	0	27	205	0	0	0	0	11	51
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	17	502	46	11609	46	1490
310010	0	0	1	230	0	0	0	0	0	0
310040	0	0	20	460	1	38	0	0	7	907
310070	0	0	0	0	0	0	0	0	10	738
390040	0	0	0	0	0	0	0	0	4	156
390050	0	0	0	0	6	108	0	0	18	581
400040	0	0	0	0	0	0	0	0	1	32
400050	0	0	0	0	0	0	0	0	24	370
400070	0	0	0	0	0	0	0	0	3	37
400080	20	84	0	0	22	265	0	0	68	595
510080	4	124	0	0	1	4	2	6	0	0
590030	0	0	0	0	1	3	26	267	7	2795
610980	0	0	0	0	3	2936	10	28	7	1332
690050	0	0	0	0	0	0	0	0	1	4
690070	0	0	0	0	0	0	0	0	0	0
690090	4	747	0	0	8	106	2	53	15	1233
700020	5	185	0	0	0	0	0	0	4	58
700080	0	0	0	0	0	0	20	234	0	0
8460110080	0	0	0	0	0	0	1	20	5	893
190010	0	0	0	0	0	0	0	0	76	1163
190050	0	0	3	79	21	158	10	26	24	368
210080	0	0	0	0	0	0	1	3	3	442
290010	0	0	1	114	24	233	1	105	3	110
290030	0	0	0	0	0	0	0	0	5	1165
290050	1	5	0	0	179	2441	12	196	25	1109
310080	0	0	0	0	0	0	1	22	1	19
390050	0	0	1	6	45	179	1	21	20	197
400060	0	0	0	0	3	30	0	0	0	0
400080	0	0	0	0	1	5	0	0	1	144
900060	0	0	0	0	3	13	0	0	11	165
900080	1	36	2	9	24	391	54	249	120	3902
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	2	48	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	5	351
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	12	1	5	91	442
405060	0	0	0	0	2	18	0	0	12	52
500050	0	0	0	0	0	0	0	0	0	0
500090	21	158	2	17	200	2521	12	311	167	835
9000000001	1	4	0	0	34	1077	94	1676	9	912
9800000001	50	3057	0	0	1454	1188	11	79	57	526
9900000001	216	24	81	37	733	398	963	606	25348	4604
Y-T-D Tot	326	4501	757	5110	2846	15685	1312	17967	26337	40635
NC YTD Tot	11	383	35	775	17	3226	43	2203	126	12527

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
January 89 - September 89

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	45	1159	14	109	16	180	1	6	6	287
8462100030	0	0	0	0	1	1070	0	0	0	0
100050	3	635	5	344	6	125	0	0	2	196
210080	0	0	3	76	2	123	1	15	3	1191
290030	0	0	0	0	6	289	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	55	14	470	7	985	0	0	16	355
310080	0	0	0	0	0	0	0	0	0	0
390050	1	9	1	32	1	32	0	0	0	0
410080	2	203	0	0	0	0	0	0	0	0
490050	34	652	12	263	8	558	0	0	13	657
910060	19	318	0	0	1	877	0	0	0	0
910090	0	0	5	46	2	973	1	6	4	55
990030	0	0	2	330	1	67	0	0	2	1357
990040	2	170	20	497	0	0	0	0	0	0
990060	0	0	33	2068	4	24	0	0	1	63
8463100080	0	0	4	81	0	0	0	0	1	27
200080	1	195	1	40	0	0	0	0	0	0
300080	50	2217	40	827	5	53	0	0	31	1396
900080	0	0	9	217	11	1862	1	29	24	583
9800000002	76	3301	67	351	5	328	7	84	25	520
9900000002	0	0	139	81	15	14	14	12	45	21
Y-T-D Tot	234	8915	369	5832	91	7560	25	152	173	6708
NC YTD Tot	21	522	5	406	4	1067	1	15	5	2547
C&F YTD	706	31177	992	15813	278	15999	123	4249	616	17567
C&F NC YTD*	113	14413	52	7014	9	2762	7	1983	13	3718

Other Manufacturing Technology

1000000000	0	7155	0	12466	0	4276	0	243	0	12156
2710003070	0	8	0	39	0	279	0	164	0	85
8428900010	36	363	98	498	0	0	0	0	3	138
8456100000	6	466	34	1111	19	658	0	0	6	261
200000	0	0	0	0	1	25	0	0	0	0
8477106010	0	0	4	334	0	0	0	0	3	416
106050	0	0	1	368	0	0	0	0	4	323
200010	0	0	4	106	10	342	0	0	0	0
200050	17	2045	32	821	0	0	0	0	7	178
300000	1	576	12	1569	4	93	0	0	23	212
400000	25	2321	11	641	4	90	1	11	3	152
8479899040	10	60	103	2053	2	294	0	0	28	426
900040	0	116	0	273	0	59	0	0	0	72
8537100030	163	747	878	2700	13	41	0	0	381	927
9024100000	0	1305	0	1387	0	369	0	2	0	1289
9031100000	0	364	0	30	0	865	0	4	0	34
300000	0	0	0	5	0	0	0	0	0	122
9032810040	7631	1164	30979	1883	965	124	10	8	32019	2452

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	13	194	20	501	2	17	18	340	1	6
8462100030	21	3830	6	3284	0	0	6	41	0	0
100050	87	4547	23	506	0	0	113	2098	1	31
210080	77	4786	39	2949	0	0	19	920	1	17
290030	5	206	1	49	0	0	8	282	0	0
290040	0	0	0	0	0	0	17	740	0	0
290050	21	1357	33	1844	1	7	65	1803	10	173
310080	9	436	2	52	0	0	3	162	1	40
390050	12	183	2	153	1	20	29	419	1	14
410080	3	1321	4	618	5	905	7	1549	16	2185
490050	29	514	29	3237	1	9	92	1641	0	0
910060	2	112	0	0	1	17	9	272	1	84
910090	7	1438	26	2768	0	0	252	2691	3	48
990030	4	695	0	0	0	0	3	366	0	0
990040	21	636	9	294	1	51	15	592	0	0
990060	23	1315	11	1651	0	0	219	4776	0	0
8463100080	41	1009	5	100	0	0	24	483	0	0
200080	6	274	1	93	0	0	7	1511	0	0
300080	20	480	6	134	6	81	47	692	4	48
900080	124	12448	417	23300	2	11	113	1592	10	77
9800000002	31	1010	162	8978	4	260	931	8536	178	2920
9900000002	215	102	14	8	0	0	655	634	134	106
Y-T-D Tot	771	36895	810	50517	24	1378	2652	32142	361	5750
NC YTD Tot	95	7350	45	3618	6	922	41	3270	19	2326
C&F YTD	3443	61247	2300	83720	104	2305	8374	81553	767	9274
C&F NC YTD*	217	15339	157	16493	9	1058	182	13798	38	4226

Other Manufacturing Technology

1000000000	0	49636	0	36195	0	2913	0	44481	0	4848
2710003070	0	408	0	189	0	56	0	357	0	49
8428900010	77	764	7	658	0	0	77	2279	0	0
8456100000	1175	11091	4	348	4	840	67	480	5	158
200000	60	31	0	0	0	0	2	23	0	0
8477106010	2	139	8	1969	16	1729	70	4996	0	0
106050	6	795	15	4285	0	0	55	5891	16	1236
200010	10	1037	27	1448	0	0	77	3341	0	0
200050	37	436	39	437	4	82	124	5540	5	146
300000	3	53	40	2185	0	0	108	3386	1	15
400000	141	353	52	534	0	0	105	2217	56	441
8479899040	142	4465	31	1380	1	10	7	107	34	197
900040	0	2030	0	596	0	11	0	318	0	32
8537100030	214	2271	738	845	28	69	220	549	96	658
9024100000	0	13202	0	7185	0	950	0	1858	0	827
9031100000	0	589	0	3783	0	41	0	2403	0	67
300000	0	4322	0	225	0	0	0	7	0	6
9032810040	31790	2865	4587	771	131	17	32233	1225	55282	3096

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	2	0	0	1	8	9	74	2	16
8462100030	0	0	0	0	0	0	0	0	6	676
100050	10	301	4	172	0	0	4	60	3	57
210080	0	0	0	0	6	197	4	510	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	1	11	0	0
290050	22	968	3	96	6	101	3	38	4	40
310080	5	1367	0	0	0	0	0	0	0	0
390050	0	0	26	713	0	0	2	72	0	0
410080	8	833	0	0	1	113	2	233	3	215
490050	9	77	21	786	10	88	30	965	11	169
910060	0	0	1	94	0	0	3	449	2	199
910090	3	53	2	134	3	144	4	405	0	0
990030	2	346	0	0	1	65	3	233	0	0
990040	2	924	0	0	0	0	0	0	0	0
990060	3	23	10	412	0	0	4	633	1	10
8463100080	28	382	2	55	0	0	1	10	5	166
200080	0	0	2	144	0	0	0	0	0	0
300080	2	37	13	421	2	30	6	98	9	309
900080	7	1010	8	419	10	453	54	10758	7	168
9800000002	17	261	4	244	1	15	25	449	17	1293
9900000002	51	60	2	2	0	0	66	57	2	3
Y-T-D Tot	170	6645	98	3693	41	1214	221	15054	72	3320
NC YTD Tot	15	2546	1	94	8	375	12	1425	5	414
C&F YTD	831	12995	318	6500	276	4224	797	22221	156	5196
C&F NC YTD*	45	4716	2	771	24	1989	46	3987	23	1069

Other Manufacturing Technology

1000000000	0	8617	0	5143	0	6850	0	9383	0	2641
2710003070	0	292	0	204	0	76	0	1860	0	105
8428900010	7	48	0	0	13	16	0	0	0	0
8456100000	9	231	5	91	2	40	37	2632	0	0
200000	0	0	6	158	1	17	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	13	1238	6	484	3	208	24	1538	0	0
200010	1	60	0	0	0	0	13	565	0	0
200050	3	549	1	200	0	0	67	1479	0	0
300000	0	0	1	263	1	12	5	96	5	1126
400000	12	113	0	0	261	300	2	12	1	8
8479899040	19	116	12	170	50	688	64	510	0	0
900040	0	90	0	52	0	142	0	40	0	0
8537100030	90	243	26	136	453	645	136	574	14	88
9024100000	0	1592	0	2049	0	328	0	2983	0	113
9031100000	0	707	0	29	0	44	0	196	0	43
300000	0	42	0	160	0	37	0	240	0	0
9032810040	18749	1279	19374	1053	1398	192	10675	675	11282	96

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and other Manufacturing Technology
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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	24	181	0	0	26	1325	38	150	54	630
8462100030	0	0	0	0	0	0	4	968	2	1269
100050	81	1766	0	0	12	239	6	241	101	3402
210080	26	1126	0	0	1	19	1	71	34	3106
290030	1	124	0	0	0	0	0	0	0	0
290040	1	25	0	0	0	0	0	0	11	334
290050	21	855	0	0	9	142	28	1317	52	3455
310080	13	465	1	69	1	34	0	0	2	146
390050	9	170	0	0	0	0	1	63	31	555
410080	3	745	0	0	1	36	3	783	3	77
490050	65	3354	0	0	2	118	37	1343	88	2846
910060	7	139	2	108	0	0	0	0	7	599
910090	8	1505	0	0	5	1270	9	2231	42	2659
990030	1	150	0	0	0	0	2	50	2	360
990040	32	1428	1	694	0	0	0	0	11	559
990060	25	4551	0	0	11	204	27	5071	32	2134
8463100080	7	62	0	0	1	12	34	728	42	1032
200080	1	19	0	0	0	0	0	0	5	173
300080	237	11856	2	106	22	550	49	1939	111	2920
900080	72	5274	0	0	12	419	82	3471	616	17107
9800000002	42	1055	0	0	55	3300	41	1336	653	13966
9900000002	329	170	0	0	22	18	345	250	1054	699
Y-T-D Tot	1005	35021	6	977	180	7686	707	20012	2953	58026
NC YTD Tot	50	2625	3	176	3	89	6	904	48	4288
C&F YTD	3169	72060	38	7456	454	12799	2154	43219	7675	84787
C&F NC YTD*	189	23975	25	3415	10	690	69	9672	147	12800

Other Manufacturing Technology

1000000000	0	65640	0	245	0	10858	0	47167	0	89438
2710003070	0	99	0	0	0	491	0	103	0	1901
8428900010	21	955	0	0	0	0	81	385	53	136
8456100000	163	2035	8	193	0	0	62	3209	248	5472
200000	8	146	0	0	0	0	0	0	1	26
8477106010	3	179	4	565	2	148	5	922	21	1316
106050	23	1877	0	0	6	689	20	2266	28	2170
200010	0	0	0	0	5	59	44	1690	12	242
200050	37	2506	0	0	12	1709	27	868	124	5892
300000	10	605	5	1976	35	642	15	1464	20	3892
400000	134	1156	0	0	2	12	61	567	101	1232
8479899040	152	2170	1	50	2	9	649	5856	122	1312
900040	0	2975	0	0	0	3	0	802	0	494
8537100030	2322	10560	0	0	134	72	1336	4448	585	2961
9024100000	0	4156	0	208	0	259	0	4447	0	5130
9031100000	0	1150	0	0	0	104	0	592	0	2002
300000	0	436	0	0	0	0	0	275	0	140
9032810040	47239	3597	1	10	4394	805	35152	2396	52545	3956

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8465300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 89 - September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	4	145	0	0	4	145
Czechoslovakia	1	146	0	0	1	146
Denmark	11	205	124	1325	135	1530
East Germany	0	0	0	0	0	0
Finland	284	150	21	296	305	446
Greece	15	563	8	1448	23	2011
Hungary	19	160	2	83	21	243
Iceland	0	0	0	0	0	0
Ireland	28	636	61	5163	89	5800
Luxembourg	0	0	0	0	0	0
Norway	22	143	37	669	59	811
Poland	34	433	13	2964	47	3396
Portugal	19	113	16	473	35	586
Romania	0	0	0	0	0	0
Sweden	192	2242	151	4429	343	6670
Turkey	23	2069	12	419	35	2488
Yugoslavia	11	181	15	364	26	546
Oth Europe	0	0	2	95	2	95
TOTAL	6458	110667	3462	99981	9920	210648
NORTH AND CENTRAL AMERICA						
Bahamas	62	88	5	48	67	135
Barbados	9	39	6	25	15	64
Belize	0	0	0	0	0	0
Bermuda	8	211	1	3	9	214
Costa Rica	181	363	16	77	197	440
Dominican Rep	48	300	61	647	109	947
El Salvador	18	383	8	39	26	421
Guatemala	18	52	35	1015	53	1066
Haiti	0	0	11	30	11	30
Honduras	7	73	13	185	20	257
Jamaica	67	423	13	127	80	550
Panama	11	99	5	110	16	209
Trinidad	12	43	7	62	19	105
Oth N & C Am.	7	93	77	646	84	739
TOTAL	25775	100053	5232	68381	31007	168434
SOUTH AMERICA						
Argentina	210	1418	385	774	595	2192
Bolivia	0	0	0	0	0	0
Chile	210	1367	332	3083	542	4450
Colombia	371	1790	738	2619	1109	4409
Ecuador	3	8	9	193	12	201
Paraguay	2	6	0	0	2	6
Peru	10	89	33	675	43	763
Uruguay	14	135	0	0	14	135
Oth South Am.	6	139	4	69	10	208
TOTAL	1441	17679	1787	20908	3228	38587
OCEANIA						
New Zealand	22	270	4	56	26	326
Oth Oceania	5	126	5	73	10	200
TOTAL	735	8582	440	5599	1175	14181

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 89 - September 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	2	1634	2	1634
Hong Kong	1970	3157	290	6394	2260	9550
Iran	0	0	5	730	5	730
Iraq	24	1283	22	1995	46	3279
Israel	77	1608	77	2729	154	4337
Jordan	2	12	2	60	4	72
Kuwait	17	119	2	124	19	242
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	8	11	0	0	8	11
Oman	1	12	0	0	1	12
Pakistan	9	1026	31	780	40	1805
Philippines	261	997	42	1020	303	2018
Qatar	0	0	0	0	0	0
Saudi Arabia	100	1601	163	4236	263	5837
Sri Lanka	11	17	0	0	11	17
Syria	1	4	1	5	2	9
United Arab Emr	22	222	0	0	22	222
Vietnam	0	0	0	0	0	0
Oth Asia	20	84	47	831	67	914
TOTAL	8843	118824	3102	150974	11945	269798
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	18	349	5	70	23	418
Ethiopia	8	43	0	0	8	43
Gabon	0	0	0	0	0	0
Ghana	3	98	1	77	4	175
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	1	16	1	16
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	4	435	2	7	6	442
South Africa	182	955	24	8822	206	9777
Sudan	10	7	0	0	10	7
Swaziland	0	0	0	0	0	0
Tunisia	0	0	1	21	1	21
Zaire	1	2	0	0	1	2
Zambia	0	0	0	0	0	0
Zimbabwe	4	11	2	15	6	26
Oth Africa	5	10	3	180	8	190
TOTAL	235	1909	39	9208	274	11117

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.